

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

OCTOBER 15, 1955

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# AMERICAN NURSERYMAN

F. R. KILNER  
*Editor and Publisher*

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*Managing Editor*

## Editorial

### AUTUMN PLANTING

Autumn planting has been practiced of necessity by landscape nurserymen since the building boom provided more jobs than they could handle in spring. Indeed, during this period, planting has been carried out in the other seasons of the year at times when the weather has permitted.

Success has been insured by development of procedures in digging and handling plants preparatory to planting, in soil preparation and mulching, in the use of antidesiccating sprays, in watering and other aftercare and in further phases of operation.

Homeowners who do their own planting have not been impelled to such autumn activity. The reasons seem to be psychological. The stimulus provided by the budding vegetation and the warm weather of spring is lacking in the brown, chill days of fall. Then the gardener does not have the early thrill of seeing the results of his efforts, but must wait months to learn how well they will thrive.

On the latter account, autumn plantings by beginning gardeners probably do not do so well as those of spring. The gardeners do not do so good a job, to begin with, and do not give the needed attention to watering, mulching and other care afterward.

Yet they will learn. If you are selling them bulbs for fall planting, try selling them an evergreen or two, which they will water and watch, and then some deciduous shrubs, such as a hedge, with perhaps a sheet of mimeographed printed special instructions for autumn planting.

### MEASURING STICKS

The man who single-handed operates a nursery, landscape business or any other form of enterprise in this industry is likely to be so much occupied by actual labor or the supervision of his few employees that he has little time to give to problems of management. Such consideration as he usually gives to them is at the

## The Mirror of the Trade

end of the day, when energy is at an ebb and faculties are not functioning with their morning alertness. The wonder is so many small enterprises are run as well as they are.

The same absorption of his time and energy by the day's routine labor limits his study of management practices and results. There are few books related to the subject and none directly pertinent to his particular problem. By studying his trade paper he may obtain hints and suggestions of help. But, generally speaking, management is the application of general rules and yardsticks to specific problems and situations. The tired nurseryman does not wish to reason out the answers or figure out the application of general principles to his present predicament.

At trade meetings, therefore, this type of member is more likely to be found in the lobby or corridor comparing notes, so to speak, with others of his own kind, rather than in the meeting room listening to a paper being read or a speech delivered that is of general character. In recent years, convention programs have included panel discussions of practical topics to meet the needs of such members, so they will compare notes with a wider group, instead of in pairs out in the corridors.

More directly helpful to such small operators have been the local organizations of single trade groups, which are able to focus their discussions most directly on matters of immediate and local concern. They can most closely discuss costs, charges, trade customs and other similar problems.

The small operator is seeking ready-made measuring sticks by which he can guide his own practices or determine their comparative efficiency and success with those followed by others. The need for better management is recognized by 1-man operators as well as by large firms or corporations.

### SHOW GARDENS

The multiplying number of motoring tourists on the roads has increased the success of and perhaps the roster of show gardens in various parts of the country, particularly the south.

Some of these have been developed by nurserymen, who profit not only by the admissions, but also by the stimulus to the sale of plants. Others are of similar commercial origin. A

few are municipal projects, to give a town some claim to fame and to tourists' attention. Most have started as private estates, historic homes or endowed gardens that came to require the additional income from admissions to meet their maintenance expenses.

Many of the show gardens distribute to travel agencies and to the public vividly pictorial folders describing their attractions. The specialty of each, whether orchids, azaleas, camellias or what you will, is strikingly shown in color on the cover.

At this time of year a collection of such folders mounted on the wall of a garden store would be a colorful attraction. It would draw the notice of motoring gardeners, who would perhaps send their friends to inspect them. At least, it would be different and something to be talked about.

Some show gardens have in seasons past mailed their illustrated folders to nurserymen. They seem a logical avenue through which to attract those who would be the most interested visitors.

### THE MORE WE TELL

At least two garden books which have come from the press this season have been written by men who have spent their lives in the nursery business. They give information about the plants with which the authors have been dealing over a long period of years. These books may not be written with the skill of the accomplished so-called garden writers, nor are they so simple as some of the garden primers put out recently for the public. But the information contained in these books comes, in the vulgar phrase, from the horse's mouth and is of a sound, informal and also a most practical nature.

Some nurserymen have rendered excellent service in their own localities by conducting a garden department in the local newspaper. Fewer have contributed to the national garden magazines or seen their manuscripts go into book form. Yet their example is a good one, because the more accurate and practical the information that is put into the hands of the public, the truer and more enduring will be its interest in garden plants. An advertising adage, "The more you tell, the quicker you sell," might be revised in this regard in the words, "The more you tell, the more you sell."



# Landscape Men Turn Teachers

By Axel H. Lundstrom

Exchanging a nurseryman's spade for a schoolmaster's pointer was the pleasant experience of several members of the Madison Landscape Nurserymen's Association, of Madison, Wis., last spring as they conducted a series of lectures and demonstrations on the general topic of "Landscape Design and Planting for the Home Grounds" for classes at the vocational school at Stoughton, Wis.

This new venture in service to the larger Madison community was the direct outgrowth of the association's TV programs over WKOW-TV (CBS), reported in the June 1 issue of the *American Nurseryman*. That feature had been seen by the director of the vocational school, George W. Schefelker, who happened then to be engaged in planning a series of evening classes on landscaping for the school. It occurred to him that basic information on design, plants and planting, similar to that given on the TV program, augmented by additional classroom materials, such as slides and motion pictures, would materially assist the members of the class to plan and execute their home grounds improvement projects more intelligently. Classes were started promptly after a schedule of meetings had been arranged. The class attendance numbered about 30 persons, half of the group being women.

Participating as instructors were Clifford Mathison, Mathison Landscape Service; Peter Ganshert, Ganshert Landscape Service, and Richard T. Meland, Arrowood Greenhouse & Nursery.

## Evergreen Plantings

The subject of evergreens occupied the attention of the class for one entire session. Considerable time was devoted to the aesthetic arrangement of evergreens in combination with shrubs and flowers to obtain interest and variety in what might otherwise be a monotonous planting. It was suggested that pyramidal and upright forms, often used at entrances and foundation corners, should be limited to points definitely calling for accent or be used in group plantings, so the characteristic stiff appearance of the plants would be softened. Practical ideas for the use of evergreens for foundation plantings, particularly for the ranch or prairie type of architecture, seemed to be a problem all homeowners were struggling with and, in this instance, possible solutions were accepted gratefully.

While observing a perspiring Clifford Mathison, president of the Madison Landscape Association and one of the instructors, moving heavy balled and burlapped evergreens from the school entrance to the second-floor classroom, Mr. Schefelker knowingly commented "That's real hard work. You men sure are giving us more than we bargained for. We appreciate your efforts in bringing us such a fine selection of plants for demonstration purposes."

## Shrub and Flower Borders

At another session of the class, colored slides and a motion picture titled "Dreams Come True" were shown in conjunction with the usual lecture and blackboard diagramming to demonstrate the layout of shrub borders that included flowering and foliage plants. Some of the slides were from the personal collection of Peter Ganshert and the rest were borrowed from the slide collection of the horticultural department of the University of Wisconsin. The motion picture was supplied by the plant food division of a national fertilizer firm, which also thoughtfully furnished an operator for the projector.

Judging from the comments heard, especially from the women, during the showing of pictures and when the display of potted blooms was brought out, as well as from the animated discussion which followed, it can be assumed that this was one of the most successful and instructive class meetings of the series.

Still another session was concerned with the more prosaic topic of grading, lawn seeding and sodding and other necessary work preceding the actual setting of the plants in the ground. This session also included information on the construction of garden features, such as terraces and patios, stone walls and wood fences, and how these features not only could have many practical uses, but also be of great decorative value in the over-all landscape scheme.

It was emphasized at this class meeting that homeowners in the northern sections of the country, where warm weather is of short duration, could economically increase the enjoyment and usefulness of their gardens by the construction of such features as patios and windbreaks.

Recognition of the fine work of the teaching staff in presenting the ideas already cited, plus many others, was given by the director of the school at the final meeting. In fact, so pleased were the school and the pupils that the staff was signed up for one meeting in September to discuss selection and planting of bulbs and the winter care of shrubs and flowers. Long-range plans call for an expanded program of landscape gardening for next spring, with the association having the full responsibility for the course.

## Important Factors

Local associations of nurserymen who wish to engage in a promotional [Continued on page 36]



Peter Ganshert, standing, and Clifford Mathison, seated, both of Madison, Wis., who gave instruction on landscaping problems in a series of classes at a vocational school at Stoughton, Wis.

# Western New York Meet

By W. F. Kelly, Sec'y

The Western New York Nurserymen's Association held its annual fall outing September 15 at the Geneva Country Club, on the west shore of beautiful Cayuga lake, at Geneva, N. Y. The weather was ideal.

Registration started at 10:30 a. m. and nurserymen came from far and near. Besides representatives of the trade in Canada, Valleau Curtis, Calicoon, N. Y., director of region I of the American Association of Nurserymen, attended. Representing Cornell University, Ithaca, were Dr. A. M. S. Pridham and Ernest Schaffer. Dr. Pridham brought a guest from New Zealand. Robert Kessler, of Alfred University, Alfred, was present.

The following scientists from the state experiment station at Geneva were attendants: R. M. Gilmer, F. L. Gambrell, C. E. Heit, L. G. Klein and G. L. Mack. Henry Little and William Ozard, of the New York state bureau of plant industry, were also on hand. There were 140 persons registered for the day. Some of the individuals who arrived early enjoyed golf at a fine golf course.

The clam bar was opened at 11 o'clock, and a buffet luncheon was served at noon. During the afternoon there was a spirited ball game between the nurserymen from the Dansville and Buffalo areas, the former winning. Richard Roberts was captain of the winning team; Everett Monin captained the Buffalo team.

Those who desired to visit local nurseries were taken on tours

through the establishments of Maxwell, Bowden & Rice, Inc.; Stern's Nurseries, and others. Several nurserymen visited the extensive fruit exhibit at the experiment station at Geneva. The New York State Fruit Testing Association was holding its meeting the same day, affording the nurserymen a good chance to see at first hand some of the varieties being developed at the station.

At 6:30 p. m., the crowd was treated to a fine roast beef dinner. At the short business meeting after the dinner, Henry Little talked to the group briefly, as did Mr. Conroe, Newark, on the rose chafer quarantine. George Schaeffer, chairman of the transportation committee, discussed freight rates. Cards and other activities were enjoyed in the afternoon.

The committee in charge of the outing was headed by Dan Quigley, who was assisted by Ray Rice, Arthur Rundell and William Brando. This was one of the largest gatherings of the group for some time.

Phil White, Ithaca, traveled to the outing in his cabin cruiser, by way of Seneca lake, Erie canal and Cayuga lake, a trip of nine hours.

## NORTH JERSEY PROGRAM

The North Jersey Metropolitan Nurserymen's Association held a regular meeting at the Peacock House, Mountain View, N. J., September 15.

Henry Holman, Kingsville Nursery, Kingsville, Md., spoke on "Un-

usual Plants That Are Hardy in the North." After a few opening remarks, Mr. Holman showed colored slides of many plants, telling their good points and giving tips on how to propagate them.

Some of the plants shown were the following: *Cyrilla racemiflora*, *Chionanthus retusus*, *Styrax obassia*, *Acer griseum*, *Acer rubrum columnaris*, *Acer saccharum monumentale*, *Acer campestre compactum*, *Acer palmatum* varieties, *Cornus salicifolia*, *Cornus kousa* (pink form), *Cercis canadensis alba* and *Withers Pink Charm*; *Stewartia sinensis*, *Stranvaesia undulata*, *Syringa meyeri*, *Viburnum macrocephalum sterile*, *Rhododendron* hybrids and *Azalea Gables* hybrids.

After Mr. Holman's talk, a substantial supper was served in an air of good fellowship. Hans Hess and his committee planned this highly successful program.

Edward S. Wyckoff, Sec'y.

GERALD K. KLYN, INC., Mentor, O., nursery and rose-growing firm, is completing a cold storage warehouse having 5,000 square feet of floor space, which will increase total storage space to 30,000 square feet. A modern lath house 100x250 feet, scheduled to be completed by November 1, will add to the winter storage facilities for hybrid rhododendrons and azaleas, now propagated in volume there. Container stock is distributed the year around.

CLARENCE VANDERBROOK, research director of the Gardening Council, made his second appearance on NBC's Home Show over a coast-to-coast television network, October 5. His subject was "Remodeling Your Landscape."

## WESTERN NEW YORK HEAD

President of the Western New York State Nurserymen's Association, B. B. Stangler is the present owner and operator of Land O' Trees Nursery, Williams-ville, N. Y., a suburb of Buffalo. He is also secretary-treasurer of the New York State Nurserymen's Association.

Mr. Stangler received his early education in grade and high school at LeCenter, Minn. From 1936 to 1940 he attended the University of Minnesota, Minneapolis, where he majored in horticulture and received a B.S. degree, cum laude. In the years while he was attending the university, he also gained trade experience with the Rose Hill Nursery, St. Paul, Minn., and the Elitch Gardens Co., Denver, Colo. In 1940 and 1941, he was employed by the Harry Franklin Baker Landscape Co., Minneapolis, Minn.

From 1941 to 1945, Mr. Stangler served in the army and advanced through the

ranks from private to captain. He received four campaign stars and the Bronze Star medal for action in the European Theatre.

After the war, Mr. Stangler attended the Shrivensham American University, Shrivensham, England, taking a post-graduate course, studying English landscape design and touring English gardens. From 1946 to 1949 he earned his Ph.D. degree in ornamental horticulture at Cornell University, Ithaca, N. Y., subsequently assuming his present business ownership, carrying on an equal division of cash-and-carry retail trade and landscape contracting.

Now 37, Mr. Stangler is married and the father of four children. His trade affiliations, besides those previously mentioned, include the American Association of Nurserymen and the National Landscape Nurserymen's Association.



Bernard B. Stangler



Newly elected officers of the Louisiana Association of Nurserymen, left to right, George Johnson, second vice-president; Joseph M. Vallot, Jr., director; Aubrey Henderson, past president and new director; Wiley Roach, president; Gordon Dugal, director, and Sam Poole, director. Absent from the group are Floyd McKee, first vice-president, and Rene Casadaban and Jack Magee, directors.

## First Louisiana Convention a Success

By James Foret

Wiley A. Roach, Roach Nursery, West Monroe, La., was elected president of the Louisiana Association of Nurserymen at the first annual convention of the group, held in Blackham Coliseum on the campus of the Southwestern Louisiana Institute, Lafayette, September 16 and 17. After the organization of the association last year, Mr. Roach served as first vice-president for 1954-55 and succeeds Aubrey Henderson, Henderson's Nursery, Lafayette.

Floyd McKee, McKee's Nursery, Covington, was elected first vice-president, and George Johnson, Central Louisiana Nursery, Forest Hill, was named second vice-president. In addition to Aubrey Henderson, new directors include Gordon Dugal; Rene Casadaban, Casadaban's Nursery, Abita Springs, and Jack Magee.

At the recent convention, which was considered highly successful, the program was dedicated to the memory of John J. Smith, who started Smith's Nursery at Grand Coteau, La., in 1929 and was widely known through Louisiana and Texas both for his high principles and his production of quality stock. Joseph M. Vallot, Jr., Grandview Nursery, Youngsville, was general chairman of the convention.

Registrations for the 2-day trade meeting numbered 210. States represented were Texas, Arkansas, Oklahoma, Mississippi, Alabama and Florida.

There were 45 exhibits of nursery stock, equipment and machinery, insecticides, herbicides and nursery

supplies, filling the arena of the coliseum. Plaques were awarded for the most attractive displays. Winning exhibits were those of Casadaban's Nurseries, first; Grandview Nursery, second, and Henderson's Nursery, third.

Friday afternoon, the convention was extended a welcome by Dean T. J. Arceneaux, of the college of agriculture at S.L.I. Mayor Ashton Mouton of Lafayette extended greetings to the group from the city.

A short business meeting was held Friday, at which time distinguished guests were introduced and the reports of various committees read. The meeting then adjourned until the Cajun shrimp boil at 7:30 p. m. After the shrimp boil, Prof. Ira Nelson, of S. L. I., showed slides and movies of his recent plant-collecting trip to Central and South America.

### Consumer Sales

The educational programs began at 10 o'clock Saturday morning with an address on "Consumer Nursery Selling," by Dr. Bernard Bienvenue, professor of economics, S. L. I. The speaker began by pointing out the trends toward rural properties and larger families, resulting in more customers and more sales. "The average work week is getting shorter, meaning more leisure time for the American male," he stated, "and he is often the member of the family who reads the most articles on gardening." Professor Bienvenue warned of two factors that can turn this bright picture into a dark one, as far

as the nursery industry is concerned. One is the increasing competition for the consumer's dollar. The second factor is the lack of active, trained salesmen and lack of modern marketing methods in the trade.

The speaker then recommended preventive measures for the two factors mentioned. First, one must hire, develop and train an active selling force, then hold area sales seminars, with wholesalers as well as retailers participating. Learning why and how people buy involves a coverage of (a) how to prospect for a customer, (b) how to approach a customer, (c) how to deliver an effective sales talk, (d) how to use the telephone in selling, (e) how to close a sale, (f) how to leave the door open to make additional sales and (g) how to make the customer happy over his purchase.

### Marketing Technique

To improve marketing, the retail nurseryman must keep up with practices of other industries. Methods recommended were (1) sell a whole job on the installment plan; (2) make the community garden-conscious by advertising, by attractive displays and by encouraging gardening organizations; (3) impress the customer with the dignity, beauty and practicability of your product as a gift; (4) sponsor research to find new and better varieties, and (5) develop sales literature for use in direct-mail efforts.

Dr. Bienvenue concluded his talk

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# Montana-Wyoming Group Meets And Completes Organization

*By Don Langohr, Jr., Sec'y*

Nurserymen of two western states met at Bozeman, Mont., September 16 to complete organization of the new Montana-Wyoming Nurserymen's Association. This was the second meeting of the association, which was started a year ago by a group gathered at Montana State College, Bozeman, with election of officers and appointment of a committee to draw up a constitution and bylaws.

## Officers Held Over

Since the organization is still in the initial stage, the membership voted to hold over last year's officers for another term, as follows: President, Harry Warburton, Billings, Mont.; vice-president, James Caras, Jr., Missoula, Mont., and secretary-treasurer, Don Langohr, Jr., Bozeman, Mont. Billings was chosen as the site for next year's meeting.

The proposed constitution and bylaws presented by the committee appointed to draft those documents were accepted with minor alterations after the election of officers near the close of the program.

This year's convention was held again at the state college because of the valuable assistance rendered through Prof. Vincent Iverson, of the horticulture department. Seven firms were represented at the first meeting. These firms were represented again this year, along with seven others, as a result of efforts to reach

all potential members with an invitation to join. The increased turnout was encouraging.

## Information on Materials

The meeting opened at 9 a. m. in the new college of agriculture auditorium, with President Warburton presiding. The first hour was spent in getting acquainted and signing up new members.

Morris Morgensen, Morgensen Nursery, Casper, Wyo., the guest speaker, discussed his experiences in the nursery business. His firm was started by his father many years ago and he is familiar with the many planting problems encountered in mile-high country frequented by temperature extremes and wind. The elder Mr. Morgensen was also present at the meeting. Mr. Morgensen showed color slides taken of his plantings and pointed out certain ornamentals that had grown well for him. These varieties had not been used much by other nurserymen present, and it was felt that the sharing of this valuable information could be one of the greatest benefits to the new organization. The climatic conditions make the choice of proper plant materials critical, and any information as to performance of new items is welcome.

Mr. Morgensen also displayed several well-drawn landscape plans that he had designed and planted.

In an informal discussion he answered many questions pertaining to landscape design and various methods of presentation of proposals to clients.

## Committees Appointed

At noon the group, with their wives, had dinner at the Hotel Bozeman, returning at 2 p. m. for a business session. President Warburton appointed regular standing committees and then created a new committee for the difficult task of zoning Montana and Wyoming climatically for planting purposes and developing a list of plant materials adaptable to the zones. Leonard Yeager, Montana extension horticulturist and writer, accepted the chairmanship of the new committee. Homer Metcalf, associate professor of horticulture and currently engaged in an extensive nursery stock trial program at the college nursery, was appointed to assist him, along with several other members of the organization.

David Drum, Drum's Farm & Garden Center, Billings, took the gavel to preside at a problem session. The organization provided an excellent chance to share opinions on the status of the nursery business in the two states. One point of serious discussion centered on the high incidence of itinerant salesmen in the area, representing nurseries with varying reputations. Much nursery stock, especially in the outlying communities, but also on an impressive scale in the larger cities of the area, is supplied by these salesmen. Regulation of this type of business can be achieved with the help of the chamber of commerce in the larger towns,

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Officers of the Montana-Wyoming Nurserymen's Association, with others who participated in the convention program at Bozeman, Mont., last month. Left to right (seated) are Leonard Yeager; Harry N. Warburton, president; William J. Mills; James Caras, Jr., vice-president; Don Langohr, Jr., secretary-treasurer, and David G. Drum; (standing) George Vradenburg; Duane Nelson; Prof. Vincent Iverson, and Prof. F. M. Harrington.



## Apple Rootstocks in Canada

# Propagation by Leaf Bud Cuttings

By S. H. Nelson

Many unsuccessful attempts have been made to propagate apple trees on a commercial scale by using hardwood and softwood stem cuttings. Meager successes experimentally have spurred researchers to more elaborate techniques, but, as yet, much is to be learned before cuttings of this nature can be propagated commercially in the apple-growing regions of North America. The poor successes may be caused by the adult form of the propagating material; that is, as a tree develops it passes through certain stages of physiological development and its characteristics are changed. These changes include a loss of rooting ability.

Recently, through demands by orchardists of trees smaller than standard size, considerable interest has been focused again on the use of clonal lines as understocks. To date the stooling or mound layering method of propagation is the technique advocated for multiplying these rootstocks. Such practices are not only laborious, but also space and time-consuming so that most nurserymen would rather avoid the use of stool beds. For these reasons other methods of propagation are being evaluated at the horticultural division, central experimental farm, Ottawa, Ont. Because of their lack of hardiness, the well-known East Malling rootstocks are not grown extensively at Ottawa, but a hardy clonal rootstock, *Malus robusta* No. 5 is readily available at Ottawa and was used as the propagating material in these evaluations. This rootstock, although it does not produce the much desired dwarf tree, is quite promising as a clonal understock for semi-standard trees in the less favorable apple-growing regions, and to date its multiplication by methods other than stooling has been a problem for research.

As with tests at other locations, dormant hardwood stem cuttings and leafy softwood tip cuttings in sand in the greenhouse proved to be an unsuccessful approach to this propagation problem. Root cuttings, although fairly successfully rooted,

were difficult to obtain and hard to handle.

After coming to so many dead ends, a new approach to this problem was sought. Not only was the type of cutting altered, but also the propagation methods. The majority of the cuttings were of the leaf bud type, that is, a bud similar to that used in shield budding, but where the petiole and leaf have not been removed. Most of the propagation was conducted outdoors in, one, a continuous mist frame and, second, an airtight propagation box with a removable glass top slightly sloped so that condensation runs to the edge.

In general, the few softwood tip cuttings that were planted were unsuccessful under the two outdoor methods used, although continuous mist propagation appeared to have some promise if leaf abscission could be controlled. On the other hand, as shown in the accompanying table, the leaf bud cuttings were quite

promising in some treatments. In general, cuttings planted in a greenhouse bench and shaded with cheesecloth were not so successful as those in either the propagation box or under continuous mist.

The source of propagating material appeared to be of prime importance. The number of leaf bud cuttings forming new roots was far greater when they were taken from a stool bed than when gathered from 17-year-old stock trees or 2-year-old nursery trees that had been budded from these stock trees. Possibly the severe annual pruning of the stool bed retards physiological development of the plant, thus retaining certain characteristics for rooting.

As shown in the accompanying table, sphagnum and vermiculite generally gave the best rooting.

No shading was used with the continuous mist, but all attempts to root cuttings in the propagation box without shading were unsuccessful. This

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PERCENTAGE ROOTING OF LEAF BUD CUTTINGS OF *M. ROBUSTA* No. 6

Source	Media	Greenhouse Cheesecloth shade			Propagation box Cheesecloth shade			Burlap 1 layer	Continuous mist outdoors
		1 layer	2 layers	3 layers	1 layer	2 layers	3 layers		
Stool bed	Sand	45	5	10	35	70	15	40	—
	Coarse sand	0	0	0	35	20	25	60	50
	Peat moss	20	5	20	10	30	30	10	80
	Sphagnum moss	50	20	55	15	75	85	80	100
	Vermiculite	80	55	15	50	80	75	40	90
2-year nursery trees	Sand	—	—	—	—	—	—	0	—
	Coarse sand	0	5	0	0	0	0	0	10
	Peat moss	—	—	—	—	—	—	—	50
	Sphagnum moss	—	—	—	—	—	—	30	20
	Vermiculite	0	0	0	0	35	10	0	30
17-year old stock trees	Sand	0	0	0	0	0	15	10	—
	Coarse sand	0	0	0	5	5	0	0	30
	Peat moss	0	0	0	0	5	5	0	40
	Sphagnum moss	5	5	25	5	30	35	0	70
	Vermiculite	25	5	0	0	25	5	0	60

Contribution No. 849 from the division of horticulture, Central Experimental Farms Service, Ottawa, Ontario. The author is horticulturist in this division.

## Tips for Better Landscapes

# The Use of Water in the Landscape

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farming, N. Y.

Water can possess many moods and instill similar feelings in those who live with it. Most people enjoy the presence of water in the garden or nature. This is particularly true if the water is moving, providing action, and still offers tranquillity. Water gives accent, interesting reflections, sound, movement and enjoyment to those who wish to look, swim, bathe or just cool their tired feet.

Andre Le Notre, the famous French landscape architect of the 17th century, was known for his use of water in many famous European formal gardens. His most celebrated work was the gardens of the palace of Versailles, but he is also known for designing the gardens and parks of Fontainebleau, Chantilly, Marly-le-Roi and Saint-Germain-en-Laye, as well as many in Italy, including those of the Vatican. He was enthusiastically interested in the use of water in his garden developments and once made the statement that there is nothing like water to add movement and life to the landscape.

One does not have to go to Versailles to see the splendors of fountains and pools. A trip to Longwood gardens at Kennett Square, Pa., and other American horticultural creations can give the same thrill. Water does not have to be used, however, in such an extrava-



Illustration A — Water tumbling over rocks is always interesting and has a cooling effect on a hot summer afternoon.

gant manner in order to be a successful part of the landscape. It need be only a meandering stream in a country meadow, a simple pool on a small property, a wall fountain on a livable terrace or a trickle over the stones of a small mountain stream bed to be intriguing.

### Natural Setting Best

A pool, water dripping from a few rocks, a fountain or water in any other form and movement should not appear as an accident in the landscape. An artificial setting is not

appropriate, nor should we violate the principles of water as we find them in nature.

Those who have an existing stream, brook or water in some other form are fortunate, because much can be done to make it an important part, if not the most important, of the whole picture. Illustration A shows the tumbling of water over terracing rocks and two teen-agers cooling beneath sprays. Most people do not have water in this abundance, but pools can be found and made as shown in illustration B. Rocks do not stand on edge in nature as seen in the second photograph. Only man places them so—and what a job he does sometimes! It is good to have water shooting into a pool, but not as it appears in illustration B. Shooting is not what water usually does; except where it is forced into such an act.

Naturalistic rock can be used where the setting justifies its use, but where a few are used in a place entirely foreign to them, then they are better left for another job. Sometimes your client is the explorer type and may have collected some stones. Then there is only one thing to do, unless the designer is a top salesman. Naturalistic rock generally is suited to the background of a pool that is higher than the foreground. Such rocks could be fitted around the pool of illustration B, but not on edge.



Illustration C—The shape of a pool can be slightly altered in effect by using aquatic plants and trees with overhanging branches.

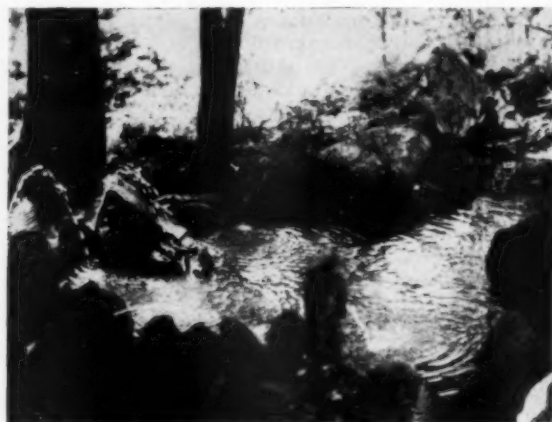


Illustration B—Woodland pools, as shown here, are restful, but would be more in keeping if the edging stones were laid flat.



Illustration D—Figures will more readily attract attention to a pool if they have moving water as shown.



Illustration E—Pools, for swimming or ornament, provide interesting reflections if viewed from a higher level.

The same bit of landscape philosophy should be adopted regarding the use of fossil and naturalistic rocks in a rock garden. Certainly a setting is needed in order for one to think of building a rock garden.

In an area known for a certain type of stone, that stone is the one to use. Take advantage of those things that are indigenous to the locality, whether they be stones, shrubs or trees.

#### Size and Shape

Size, shape and type of garden and height of background limit the size and shape of the pool to be used. A rectangular pool is usually not suited to an informal area, nor is the reverse, an irregular pool in a strictly formal garden, advisable. The straight back line of the pool in illustration C no longer appears sharp with the overhanging dogwood and the waiting frog. Another thing that may detract from the straight edges of a pool is the placement of tubed water lilies or other aquatic plants. The eyes are carried into the pool itself and not attracted so much to its outline. The background of dogwood, leucothoe, rhododendron and mountain laurel, because of its varied interests, tends to give informality to the same pool. An even mass of foliage such as a clipped hedge, for a background, would not create the same feeling. This pool is a half circle and does a good job in the corner of this small garden.

The motion of water is of interest in formal or informal pools. Illustration D not only has an interesting figure, but this same figure tilting the urn doubly helps the action and direction of the stream of water. The stream would be even more effective if it had a slight spray to it and looked more as though it were being poured into the pool. The azaleas

in the background have not had enough time to become well developed. A terrace faces the little figure, so that water is poured directly toward the onlookers. Is this good? I think so. As was mentioned before, the sound of water, whether it splashes into a pool or over rocks and stones, is intriguing. The movement adds life to a garden and causes people to watch the water much longer than for a fleeting glance.

Most pools should be seen from a higher vantage point, in order to receive their full value. Reflections can be more readily seen, also. Illustration E shows a swimming pool where reflections are as sharp and clear as in a mirror. A terrace is well above this pool; in fact, the picture was taken from the outdoor sitting area.

A swimming pool is not found on every property, not only because of the cost, but because of the size of property needed in order to include one. As may be seen in illustration E, the outline does not have to be rectangular, but may be kidney-shaped in order to be a more integral part of the landscape. Most people feel that a swimming pool should be in a garden area all its own, but this is not always necessary, either. It is important, though, that the pool be adequately protected from neighboring children by a fence or some other structure that is not penetrable. It is unlikely that children would climb the fence in the illustration.

I do not pretend to be an expert on pools, but there are a few precautions that are worth mentioning. When pouring the walls and base, pour the entire pool at one time so that there will be no seams or joints where leakage can develop. The walls and base should be not less than four inches thick for an ornamental pool; swimming pools will be different. Be

careful not to pour concrete into the drain, which can be prevented by putting something over it at the time of pouring.

If aquatic plants are to be added, or fish, have the alkaline content of the water checked, since most pools without waterproof paint are strongly alkaline. Waterproofing is recommended. By changing the water several times, the alkaline content becomes reduced. Also guard against the freezing of shallow pools where that is a problem.

The slope of the sides of a pool is determined somewhat by the soil where it is to be located. If the soil is sandy or gravelly (crumbles easily) then slope the sides gradually, but where clay is dominant, the sides can be steeper. It may not be necessary to put a drain in the bottom of a shallow pool, although it is recommended, since you can purchase a siphon attachment from a hardware store and attach it to your garden hose. The pool can be easily drained in this manner.

#### Edging

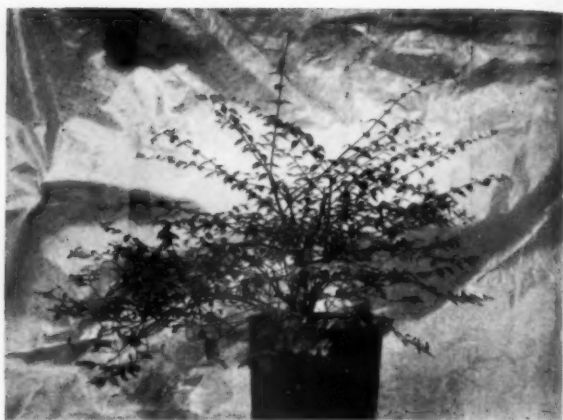
The edges of a pool are an important consideration. Where the edge has an even, smooth concrete covering, it is not nearly so interesting as when covered with turf, a ground cover, stone and, occasionally, old brick that does not completely encircle the pool. Small sections of brick are desirable for the edging, particularly where the nearby terrace or home is also composed of brick. The same is true for stone. The combination of turf and brick or stone is good for an informal area. By no means should the edge of a pool be wobbly. Such an edge usually gives people the "heebie jeebies" after one season. Islands in a pool are difficult to incorporate, also, un-

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*Jasminum parkeri*, 3-year-old plant. Note the low, pro-cumbent habit of growth.



*Abelia Sherwood*, 3-year-old plant. Note the self-branching, low habit of growth.

## New and Unusual Plants for the South

By F. C. Galle

Many of the so-called new and unusual plant materials are not new to the world, but only new to a certain location. As a suggestion, test plants from other sections of the country, but do not base your success or failure on only one plant or on the results achieved after only one year. Too often writers publish information, good and bad, about one or two plants in a specific location. For example, often you read and hear that a certain plant is not adapted to the south because of hot weather.

In the first place, the south is a large area and includes many states. It is true that it does have a warm climate, but in many sections of the south the maximum temperature is no higher than in other areas. The duration of high temperatures may be the limiting factor for many plants. However, I believe that there are other factors to include, such as soils, moisture, humidity, etc., and the failure to meet the requirements for a particular plant.

### Suggested Plants

There also are many native plants of the south that should be tried as ornamental plants. Plants suitable for sale in cans include *Leucothoe axillaris*, coast leucothoe, an excellent, native ericaceous plant, with attractive evergreen foliage. The habit of growth is drooping, and the plant

should be excellent in a shaded border or mixed with other evergreens. Its small white flowers appear in the spring. The plant is commonly found in low, moist areas, but can be used in average garden soils.

*Lyonia lucida*, fetterbush lyonia, is another native ericaceous plant uncommon in the landscape scene. The plant has an upright habit of growth, with light green evergreen foliage. The plant is difficult to propagate from cuttings, but can be grown from seeds.

*Ilex coriacea*, large inkberry, is a native evergreen plant, similar to *Ilex glabra*, but differing in a more upright habit of growth and larger foliage. The plant should be of value in the border, in background plantings and in hedges. The berries are purplish black and are not considered so attractive as those of red-fruited plants.

*Ilex myrtifolia*, myrtle-leaved holly, is an attractive, small-leaved evergreen holly with red berries. The habit of growth is upright and mounding. A yellow-fruited form of this plant is *I. myrtifolia lowei*. Both plants should be more extensively used.

Because the need for dwarf plants is still present, *Ilex vomitoria nana*, dwarf yaupon, and *Ilex cornuta rotunda* should be mentioned. Both of these plants should become popular foundation and facing plants in the future.

### *Jasminum Parkeri*

Though jasmines are common in many sections of the south, one of

the finest species, Parker jasmine, *Jasminum parkeri*, is seldom used. The plant is low and dwarf in habit of growth, with small semievergreen foliage. The plant would be of value for its habit of growth and foliage alone, but also it has attractive, yellow flowers in midspring. The plant is not commonly available in the east, but can be obtained from nurseries on the west coast.

*Lonicera nitida*, box honeysuckle, is an attractive, small-leaved evergreen plant, seen only occasionally in the south. The small, bright green foliage and interesting, angular-branching habit make this plant an ideal low hedge or edging plant. Specimen plants are found up to six feet, but the plant can be kept at a height of three feet or less.

*Prunus laurocerasus zabeliana*, Zabel cherry laurel, is a wide-spreading, broad-leaved evergreen with straplike foliage. The spreading habit of growth is similar to that of Pfitzer juniper. The plant is best used in partial to shady locations and would make a worthy addition to the garden scene.

*Serissa foetida variegata*, yellow-rim serissa, is an attractive semievergreen plant, but is more commonly used by florists in mixed foliage pots than used by nursery and landscape men. The plant will obtain a height of about four feet and become globose in form. Plants have been observed in Knoxville, Tenn., and Birmingham, Ala. The small white flowers borne in the spring are showy. The plant is ideal as a rock garden

[Continued on page 40]

Address, "New and Unusual Plants for the South," delivered by F. C. Galle, Ida Cason Gardens, Chepley, Ga., at the June, 1955, Georgia State Nurserymen's Association convention at Albany.



# Control Work on Dutch Elm Disease

By Don Wells

More than 3,000 elm trees have died from Dutch elm disease in the past three years in Rhode Island. It is probable that several thousand more will die in the coming years for the same reason.

Dutch elm disease is a real problem, but then the questions start! Does it mean the ultimate end of beautiful shade elms? What is being done to develop a practical control, and when can results be expected? What can the elm owner do in the meantime?

## How Serious?

First, how serious is Dutch elm disease in Rhode Island? It is serious enough for everyone to be concerned, but not to the point of saying "it's hopeless—we are going to lose all our elms. There is nothing we can do." It is far from being that bad, and the plant pathologists at the University of Rhode Island do not think it is likely to reach that stage. In fact, they see no reason why the public should not continue to plant elm trees.

Because the disease tends to strike and kill old and weak trees much more frequently than the young and vigorous, a good tree-replanting program, coupled with spraying with an insecticide, observing sanitation and maintaining tree health should tend to minimize the effects of Dutch elm disease over a period of time.

## Early Spread

The first known case of Dutch elm disease in Rhode Island was found near Harmony, in 1946, and promptly removed. It was an isolated case and no more affected trees were found until 1950, when one diseased tree was discovered at Barrington and another at Warwick. These marked the beginning of the first real wave of Dutch elm disease to hit the estimated 70,000 trees in the state. The following year, 64 trees were identified as having the disease. In 1952 the figure jumped to 292, and since then it has been over 1,000 each year. There were 1,054 diseased trees found in 1953, 1,163 in 1954 and 1,210 by mid-August this year.

The accompanying article, "Dutch Elm Disease," appeared in Rhode Island Agriculture, volume 2, No. 1, fall, 1955, published by the University of Rhode Island college of agriculture agricultural experiment station, Kingston.

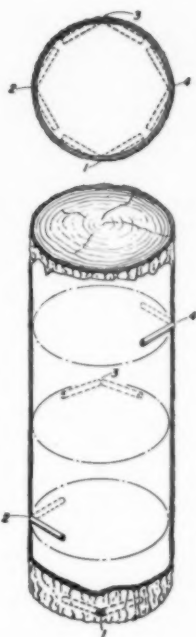


Diagram of the spiral bore-hole method of applying chemicals to the tree. Each pair of holes is on a different level, and the holes are drilled so that none is directly above another.

It is not possible to identify the Dutch elm disease positively outside the laboratory. The Rhode Island department of agriculture and conservation and the University of

Rhode Island have developed a co-operative plan for accurate diagnosis of the disease.

Scouting teams from the department travel the state, checking on elms reported as showing symptoms of the disease. From all suspected trees, twig samples are taken and delivered to the university's plant disease laboratory. Tissue from the twigs is placed on a special nutrient gel in petri dishes and incubated. The plates are examined periodically up to 30 days after incubation for the presence of the fungus, *Graphium ulmi*. The characteristic spore structures always associated with Dutch elm disease fungus usually appear within seven to 14 days, if the samples are fresh. The results of the diagnosis are reported to the department, which in turn notifies the owner of the tree.

## Control Work

What is being done to develop a practical control, and when can results be expected? Considerable research is being done by the university, other experiment stations and the United States Department of Agriculture. The plant pathologists believe an effective control will eventually be developed, but no one knows how soon. Several weapons have been used against Dutch elm disease, but a safe, practical, consistent control has yet to be found.

[Continued on page 82]



Filling a Hole with Chemical by Means of a Calking Gun

# Direct-Mail Advertising

By Ken Kitch

You will note before I am through that I am something of a deliberate seeker for simplification. When I talk about advertising to a group of business or industrial people, I do my best to court simplification, because in so many instances advertising has come to be the victim of over-complication. Why should a businessman rub his forehead in confusion over the prospect of engaging in advertising that he knows is necessary to his long-range success, if not to his immediate success as well? Why should he actually dread the opportunity of advertising?

Part of the fault lies with us of the advertising fraternity. We have been impelled to create for ourselves the orbit of a profession and to advance the need for our services through the shaping of a complicated ritual.

But part of the fault for the complicating of advertising also lies with you business people who have yearned for some magic formula that will guarantee you a specified profit for a specified investment. You have let yourselves be persuaded that everything in this day and age can be reduced to an exact science. And advertising, rightly or not, has gone all out to give you the habiliments of a complicated science.

## Advertising Like Poker

Advertising is not an exact science, unless you are willing to accept it as something that starts out with a few basic knowns. I say this not to discourage your use of advertising. In some form or other, you are going to use advertising — whether you wish to or not. Nor am I trying to discourage your use of the experienced advertising man. If he is available at a cost you can afford, you will find he can usually increase by a considerable margin your chances for success.

What I am trying to say is simply this: All advertising is a gamble. You play by certain established rules and under certain recommended conditions. You calculate your percentages as carefully as possible. Then, just like any other poker player, you play your hand as best you can.

Some people call advertising an

Address, "Direct - Mail Advertising," presented at the nurserymen's refresher course last summer at California State Polytechnic College, San Luis Obispo, by Ken Kitch, head of the department of agricultural journalism at the college.

art. I agree if you give the same tribute to poker. I have no compunction whatsoever in urging you to advertise and thereby engage in one of the most exciting forms of gambling in America today. It is a type of gambling that is much encouraged whether one grows crops or engages in business or pledges his future in any other way. All that I am urging is that you study the fundamental rules, work out your tables and play the game as smart as possible. That is the way you can win.

The longer I deal with advertising, the more I am persuaded that every player, even though he calls upon fairly universal fundamentals for assistance, has to work out his own individual method of play. Every player can read all the books he wishes and watch all the other players he cares to observe, but when he starts playing for himself, once he gets past the fundamentals, he is on his own. The myriad shifting of circumstances would alone make it imprudent for him to try to follow implicitly the decisions of anybody else.

## Necessary Cards

What are the advertiser's gambling fundamentals? Be it newspapers, radio, TV, point-of-sales, outdoor or direct-by-mail advertising, the problem resolves itself into these:

1. Do you possess a product or service that a profitably located and profitably numerous number of people can be persuaded they need or wish?
2. Do you possess one or more means by which you can reach these people at times you need to reach them and at a cost you can afford?
3. Do you have or can you buy the ability to convince a profitable number of those people that they need or wish what you have at the price you wish to sell it?
4. Do you have or can you buy the ability to persuade a profitable number of those people that they should obtain the product from you at a time you wish to sell it?
5. Do you have or can you buy the ability to persuade these persons to buy?

Unless you have that first card already tucked away some place, you had better not sit down to play at all. Unless you can manage to find the other four to go with it, you have a mighty weak hand when it comes to advertising. You in the

nursery business are in a plenty tough game these days. There is no indication but that competition will grow in the years to come. I submit that you had better take pretty careful stock of your hand and determine that you have what it takes to win before you even start betting.

I submit further that in almost all respects, advertising is no different from successful salesmanship any place else.

## Claimed Advantages

I should like to simplify direct-by-mail advertising to some extent by saying that it is essentially no different from any other form of printed advertising. You are reaching two eyes belonging to a person you wish to become your customer for a certain product or service at a certain price and at a certain time and place. That is all you can hope to accomplish with a newspaper or magazine advertisement. The principal difference when you use direct-by-mail advertising is that you are presumed to buy less waste circulation and you are sometimes convinced that through direct-by-mail you can reach your prospects at a more psychological selling time.

I am not sure that in some of your cases direct-by-mail advertising will assure you less waste circulation. Some horticultural and shelter magazines will give you an extremely selective readership, as will some of the groupings in some of your newspaper classified sections. Also I have known seed dealers and nurserymen who got along quite well with no direct-by-mail advertising (as such) at all. I hasten to add that this would depend entirely on the scope of your business and the area you cover. I believe I give you good advice when I urge that before you indulge in direct-by-mail advertising you study your merchandising carefully to see if you can obtain as effective a selection of prospects by a method involving less confusion and cost.

## Other Techniques

Can you obtain as good or better sales results at the same or less expense by hiring a woman or using some of your idle staff to work the telephone, inviting people to drop by for your new catalog or offering to send it? Have you tried a classified campaign, perhaps using display classified that is becoming more and more popular? Have you used a representative to distribute your brochures or leaflets or catalogs personally at appropriate gatherings? Have you tried tuck-in's with your pack-

[Continued on page 44]



## HOW THIS SIGN WILL HELP DEALERS :

This attractive 10" x 14" 4-color sign is your newest selling-aid for Whitney Lawn Seed. Here's how it can help you: Every ad in next year's spring newspaper schedule will promote the familiar Whitney "W" . . . and will ask your customers to look for the stores displaying it.

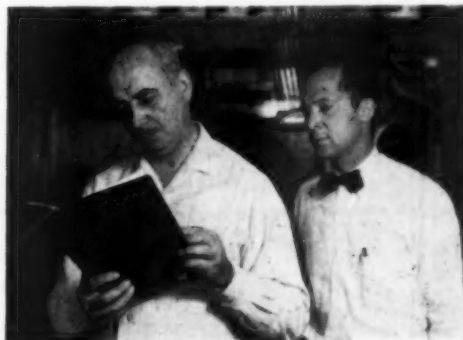
So Whitney ads will become your ads.

And your "Lawn Supply Center" sign on door or window will remind prospects to stop and shop for the Whitney Lawn Seed they have seen advertised.

Your sign will be part of a new spring promotion package of Whitney sales-helps. Be sure to order yours from your Whitney representative or distributor salesman.

### ANOTHER CUSTOMER SERVICE FOR YOU:

Whitney's new "ABC's of Lawn Preparation and Maintenance" has been created just for you . . . to help you answer every possible question on lawn problems. Just attach your copy to a counter for reference by sales people or customers. You'll build customer confidence and good will. Write for your copy of "ABC's" today on company letterhead.



# QUALITY EVERGREENS

## BROAD-LEAVED EVERGREENS

Abelia Grandiflora  
Buxus Harlandi  
Buxus Sempervirens  
Cotoneaster Francheti  
Cotoneaster Horizontalis  
Elaeagnus Fruitlandi  
Elaeagnus Simoni  
Euonymus Coloratus  
Euonymus Fortunei Erectus  
(small leaf)  
Euonymus Patens  
Gardenia Fortunei  
Ilex Cornuta Burfordi  
Ilex Cornuta Femina  
Ilex Crenata Convexa  
Ilex Crenata Rotundifolia  
Ilex Opaca East Palatka  
(heavily sheared)  
Ilex Vomitoria  
(well sheared)  
Pride of Houston  
Jasminum Floridum  
Laurel Cherry  
(well sheared)  
Ligustrum Lucidum  
(Black Wax)  
Ligustrum Lucidum  
(Griffing type)  
Ligustrum Lucidum Nanum  
Loropetalum Texanum  
Magnolia Glauca  
Magnolia Grandiflora  
Magnolia Soulangeana  
Magnolia Soulangeana Nigra  
Nandina Domestica  
Photinia Serrulata

## CONIFERS

Arborvitae, Or. Baker  
Arborvitae, Or. Berckmans  
(Aurea Nana)  
Arborvitae, Or. Blue Cone  
(very compact)  
Arborvitae, Or. Bonita  
Arborvitae, Or. Bonita Golden  
Arborvitae, Or. Excelsa  
Arborvitae, Or. Fruitland  
(Green Berckmans)

## CONIFERS, cont.

Arborvitae, Or. Newark  
Arborvitae, Occ. Globosa  
Arborvitae, Occ. Nigra  
(Dark Green)  
Arborvitae, Occ. Pyramidalis  
Cedrus Deodara  
Juniper, Andorra  
Juniperus Excelsa Stricta  
Juniperus Fastigiata  
Juniperus Glauca Hetzi  
Juniperus Glauca Hetzi  
(staked and sheared)  
Juniperus Hibernica  
(Irish)  
Juniperus Pfitzeriana  
Juniperus Pfitzeriana Aurea  
Juniperus Pfitzeriana Compacta  
Juniperus Sabina  
Juniperus Sabina Vonehron  
Juniperus Sabina Vonehron  
(staked and sheared)  
Juniperus Scopulorum  
Juniperus Sylvestris  
(Chinensis Femina)  
Juniperus Virginiana Burki  
Juniperus Virginiana Canaerti  
Juniperus Virginiana Dundee  
Juniperus Virginiana Glauca  
Pinus Mughus  
Pinus Nigra  
(Austrian Pine)  
Pinus Sylvestris  
(Scotch Pine)

## CANNED STOCK

Abelia Grandiflora  
Gardenia Fortunei  
Gardenia Mystery  
Ilex Burfordi  
Ilex Convexa  
Ilex Helleri  
Ilex Rotundifolia  
Magnolia Grandiflora  
Pyracantha Formosana  
(light)  
Pyracantha Lalandi  
(light)  
Crape Myrtle

Price and Quality Guaranteed to Please.

Visit us—Highway 72, 20 mi. east of Memphis.

## CARTWRIGHT NURSERIES

COLLIERVILLE, TENN.

Phone 4352

## COVER ILLUSTRATION

### Davidia Involucrata

The Chinese dove tree, *Davidia involucrata*, matures to 50 feet, with ascending branches which give the tree an ovate-pyramidal form.

*Davidia involucrata* is a sole species native only to China; it was named after Armand David, a French missionary who collected in China in the 19th century. The broadly oval, toothed leaves are bright green, alternate on short stems, four to six inches long and hairy underneath. The form *D. involucrata vilmoriana* has glaucous, yellowish leaves, smooth beneath and but slightly hairy on the veins when young.

The outstanding feature of the dove tree is its attractive April-May bloom. The flowers lack petals and



sepals and are borne in small clusters, but have two large creamy-white bracts from three to six inches long, which flutter in the breeze and give the plant its common name.

The dove tree is hardy in zone V, in somewhat protected parts of IV and does best in light well-drained locations. Plants have grown well and flowered at the Arnold Arboretum, near Boston, and in Durand-Eastman park, at Rochester, N. Y.

While a bit difficult to get started, *Davidia* does well when established and is a great favorite in England, where the climate seems favorable for good development. The plant does best in America from southern Pennsylvania southward. Plants were propagated by layering by the Rochester park department.

The cover illustration is from a photograph taken in park plantings at Rochester, N. Y., by Gavaghan & Dobson.

J. G.





**From North to South  
...and East to West**

**&  
NURSEYRMEN  
*Acclaim*  
P & D ROSES**

"Now that the pressure is off our spring rush, it is a pleasure to report on our experience with your roses. We potted practically all of them and the results were almost perfect. We were very pleased and want you to know it."

ADAMS NURSERY  
Westfield, Mass.

"We sincerely believe that the roses that we have obtained from your splendid organization averaged the best in quality from any source that we have ever purchased roses from. They have made many friends for us among our garden customers."

H. G. HASTINGS CO.  
Atlanta, Ga.

"Just want to let you know how nice your roses were this year. They sure do look fine. Thank you so much for the new ones."

HALL'S NURSERY  
St. Clair Shores, Mich.

"We have had excellent results again with your roses this year. The stock was especially nice and we did a very good business with all that we potted."

TAYLOR NURSERIES  
Seattle, Wash

**"IT'S THE ROOT THAT MAKES THE DIFFERENCE"**

All P & D Roses are budded on a Super Strain Multiflora Root. This new basic improvement in roses is exclusively ours after 20 years of development. It means bigger, better, hardier roses...less loss in handling...more customer satisfaction.

Most All-American Winners and popular roses are included in our new listing of 230 varieties. Send for it.

**2 Extra Services At No Extra Cost**

- ① EACH BUSH individually top tied.
- ② EACH BUSH individually labeled.

Now booking orders for early pool car shipments to eastern and southern points.

OREGON'S BEST SOURCE OF GOOD ROSES

"the  
finest  
anywhere"

EASTERN NURSEYRMEN...

For latest listings, write or wire

**FRANK C. DONOVAN**  
130 East 233rd St., Euclid, Ohio



*Peterson & Dering*  
**ROSE GROWERS**  
SCAPPOOSE OREGON



Charter Member

# 20 MILLION TREES A YEAR!



## MUSSER TREES GROW

Good heredity, careful selection of seed and scientific culture in the nursery assure superior stock. **Heavy Roots — Sturdy Tops,** assure rapid growth.



Comparison of MUSSER seedling (at right of picture) with an ordinary seedling.

### SEEDLINGS AND TRANSPLANTS AT LOW QUANTITY PRICE

	Per 100	Per 1000		Per 100	Per 1000
<b>● SPECIAL STRAIN SCOTCH PINE</b>					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.					
2-yr., S., 4 to 8 ins.	\$ 7.00	\$35.00			
<b>● MUGHO PINE</b>					
4-yr., S., 5 to 10 ins.	10.00	50.00			
5-yr., T., 5 to 9 ins.	25.00	.....			
<b>● BLACK HILLS SPRUCE</b>					
3-yr., S., 4 to 8 ins.	8.00	40.00			
5-yr., T., 5 to 16 ins.	30.00	150.00			
<b>● SERBIAN SPRUCE</b>					
3-yr., S., 4 to 8 ins.	12.00	60.00			
3-yr., T., 4 to 8 ins.	20.00	.....			
<b>● NORWAY SPRUCE</b>					
Fast-growing. Special strain of our own collection.					
2-yr., S., 5 to 10 ins.	7.00	35.00			
5-yr., T., 8 to 12 ins.	30.00	150.00			
Excellent understock.					
<b>● WHITE SPRUCE</b>					
3-yr., S., 8 to 12 ins.	8.00	40.00			
3-yr., T., 5 to 10 ins.	13.00	65.00			
<b>● COLORADO BLUE SPRUCE</b>					
3-yr., S., 5 to 10 ins.	10.00	50.00			
4-yr., T., 6 to 10 ins.	25.00	125.00			
<b>● DOUGLAS FIR</b>					
3-yr., S., 8 to 12 ins.	10.00	50.00			
<b>● AMERICAN ARBORVITAE</b>					
3-yr., S., 6 to 14 ins.	8.00	40.00			
<b>● CANADIAN HEMLOCK</b>					
3-yr., S., 8 to 14 ins.	20.00	100.00			
<b>● RED BARBERRY</b>					
3-yr., S., 6 to 12 ins.	11.00	55.00			
4-yr., S., 12 to 18 ins.	16.00	80.00			
<b>● JUNIPER VIRGINIANA</b>					
2-yr., S., 8 to 16 ins.	10.00	50.00			
4-yr., T., 8 to 12 ins.	16.00	80.00			
<b>● JAPANESE YEW</b>					
<i>Taxus cuspidata capitata</i>					
2-yr., S., 3 to 6 ins.	\$20.00	.....			
3-yr., S., 6 to 12 ins.	40.00	\$250.00			
<i>Taxus cuspidata</i>					
1-yr., T., 5 to 6 ins.	20.00	150.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus hicksii</i>					
1-yr., T., 6 to 8 ins.	25.00	175.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus Moon's columnaris</i>					
1-yr., T., 4 to 6 ins.	25.00	.....			
<i>Taxus brownii</i>					
1-yr., T., 5 to 7 ins.	25.00	175.00			
2-yr., T., 6 to 10 ins.	40.00	350.00			
<i>Taxus hunnewelliana</i>					
2-yr., T., 8 to 12 ins.	40.00	.....			
<i>Taxus hatfield and hicksii</i>					
TT., 15 to 20 ins.	150.00	.....			
Field-grown. Sheared.					
<b>● JUNIPER HETZIG GLAUCOA</b>					
1-yr., T., 6 to 8 ins.	25.00	200.00			
<b>● GLOBE ARBORVITAE</b>					
<i>Woodwardii</i>					
1-yr., T., 5 to 7 ins.	30.00	250.00			
<i>Hovey's</i>					
1-yr., T., 5 to 7 ins.	30.00	200.00			
<b>● PYRAMIDAL ARBORVITAE—Compacta</b>					
1-yr., T., 5 to 7 ins.	25.00	200.00			
<b>● JAPANESE HOLLY</b>					
<i>Ilex rotundifolia</i>					
1-yr., T., 5 to 8 ins.	20.00	150.00			
<i>Ilex convexa</i>					
1-yr., T., 5 to 8 ins.	20.00	150.00			
<b>● NORWAY MAPLE</b>					
2-yr., S., 9 to 18 ins.	15.00	75.00			
<b>● WHITE DOGWOOD</b>					
2-yr., S., 18 to 24 ins.	15.00	75.00			

Many Other Evergreen Items—Rhododendron and Azaleas

### ORDER NOW!

Write or  
Phone 5-5686

For complete catalog and wholesale planting list.  
Ask for our famous Christmas Tree Growers Guide.

**MUSSER FORESTS, Inc.**

Box 16-J  
INDIANA, PA.

## COMING EVENTS

### MEETING CALENDAR

October 21 to 23, Texas Rose Festival, Tyler, Tex.

October 22 and 23, Florida Nurserymen and Growers Association, annual trade meet, San Juan hotel, Orlando, Fla.

October 24 to 26, annual convention and national flower show, American Rose Society, Tyler, Tex.

October 26 to 29, American Horticultural Council, Inc., 10th annual congress, Shoreham hotel, Washington, D. C.

November 10 and 11, Holly Society of America, Inc., fall meeting, New Jersey agricultural experiment station, New Brunswick, N. J.

November 30 to December 2, Wisconsin Nurserymen's Association, third annual short course and 39th annual convention, Milwaukee, Wis.

December 5 and 6, Minnesota State Nurserymen's Association, annual meeting, Dyckman hotel, Minneapolis, Minn.

December 7 and 8, New York State Nurserymen's Association, short course for nurserymen, Cornell University, Ithaca, N. Y.

December 8, Pennsylvania Nurserymen's Association, Western Region, winter meeting, Hotel Webster Hall, Pittsburgh, Pa.

### FLORIDA TRADE MEET

This year's annual trade meet of the Florida Nurserymen and Growers Association will be held at the San Juan hotel, Orlando, Fla., October 22 and 23. All types of nursery stock will be displayed, including foliage plants, orchids, bulbs, perennials and allied lines of merchandise. Invitation to attend is extended to all members of the trade, according to James F. Griffin, Jr., executive secretary of the Florida association.

### FALL HOLLY MEETING

Holly Society of America, Inc., will hold its fall meeting at Douglass College, New Brunswick, N. J., November 10 and 11. The first afternoon will be devoted to a tour of the holly arboretum and orchards of the New Jersey agricultural experiment station, New Brunswick, followed by a coffee hour at the station's Log Cabin lodge. There will be a dinner in the evening at Rutgers University, with a social period and slides.

November 11, the program includes a business session, after which there will be talks by several speakers. Frank Soraci, chief of the state bureau of entomology, Trenton, N. J.,

## New M-J Poly-coated wrap cuts shipping costs up to 50%!



**PROTECTION-PLUS** . . . a uniform gauge polyethylene coating. No weak spots, no dangerously low areas.

### M-J Polyethylene Coated Nursery Wrap



Packed in M-J Polyethylene Coated Kraft



Packed in Moss and Asphalt Laminated Paper.

### Lightweight, low-cost M-J Nursery Wrap retains moisture, eliminates need for heavy moistened packing material

More and more nurserymen across the country have been shipping stock in polyethylene coated paper with excellent results.

The lightweight, low-cost M-J Polyethylene Coated Nursery Wrap retains the original moisture. The need for heavy moistened packing materials has been eliminated.

Without heavy asphalt laminated paper, shingletow, peat or sphagnum moss, shipping and parcel post costs have been cut way down . . . as much as 50% in certain cases.

McLAURIN-JONES COMPANY

Homer, Louisiana

You'll make spectacular savings on shipments of rose bushes, delphinium, strawberries, perennials, evergreens, and most types of nursery stock. What's more, you'll reduce customer complaints, because your stock arrives in good condition.

Get more information on how to ship the modern way . . . package with new M-J Polyethylene Coated Nursery Wrap. It's made by McLaurin-Jones Company, one of the country's largest suppliers of polyethylene coated paper. AVAILABLE IN ROLLS OR SHEETS, ALL SIZES AND WIDTHS, PLAIN OR CREPED. 40, 50 and 60 LB. KRAFT WITH POLYETHYLENE COATINGS FROM 1/2 MIL UP. See your local paper merchants or nursery house. Or write us direct for free samples.

# M-J NURSERY WRAP



# FALL, 1955 — SPRING, 1956

## Seedlings, etc.

	Per 100	Per 1000
<i>Abies concolor</i> , 2-yr., S., 6 to 8 ins. ....	\$10.00	
<i>Abies lasiocarpa</i> , 2-yr., S., 2 to 4 ins. ....	4.00	\$ 35.00
<i>Acer palmatum</i> , 2-yr., S., 6 to 10 ins. ....	6.00	50.00
<i>Acer palmatum</i> , 2-yr., transplanted understock .....	10.00	85.00
<i>Acer palmatum atropurpureum</i> , 1-yr., S., 3 to 6 ins. ....	15.00	125.00
<i>Acer palmatum atropurpureum</i> , 2-yr., transplants, 6 to 10 ins. ....	25.00	
<i>Acer rubrum</i> , 2-yr., S., 10 to 15 ins. ....	5.00	45.00
<i>Fagus sylvatica</i> , 1-yr., S., 4 to 6 ins. ....	7.50	65.00
<i>Fagus sylvatica</i> , 1-yr., S., 6 to 8 ins. ....	10.00	85.00
<i>Ilex crenata</i> , 2-yr., S., 3 to 6 ins. ....	4.00	35.00
<i>Ilex crenata</i> , 3-yr., S., 6 to 8 ins. ....	7.50	65.00
<i>Ilex crenata rotundifolia</i> , heavy, 3-yr., S., 8 to 12 ins. ....	10.00	85.00
<i>Ilex glabra</i> , 4-yr., S., 12 to 18 ins. ....	15.00	125.00
<i>Ilex verticillata</i> , 2-yr., S., 10 to 18 ins. ....	10.00	75.00
<i>Magnolia glauca</i> , 1-yr., S., 2 to 4 ins. ....	5.00	45.00
<i>Magnolia glauca</i> , 2-yr., S., 10 to 18 ins. ....	10.00	85.00
<i>Myrica pensylvanica</i> , 1-yr., S., 4 to 8 ins. ....	4.00	35.00
<i>Oxydendrum arboreum</i> , transplants, 8 to 12 ins. ....	25.00	
<i>Picea abies (excelsa)</i> , 2-yr., S., 4 to 8 ins. ....	4.00	35.00
3-yr., S., 6 to 12 ins. ....	6.00	50.00
transplanted understock .....	10.00	85.00
<i>Picea glauca</i> , 2-yr., S., 3 to 6 ins. ....	4.00	35.00
<i>Picea glauca</i> , 3-yr., S., 6 to 10 ins. ....	6.50	50.00
<i>Picea pungens glauca</i> , 2-yr., S., 3 to 6 ins. ....	4.00	35.00
3-yr., S., 4 to 6 ins. ....	5.00	45.00
3-yr., transplants, 6 to 8 ins. ....	17.50	
* <i>Pinus aristata</i> , 4-yr., S., 6 to 8 ins. ....	7.50	60.00
* <i>Pinus cembra</i> , transplants, 3 to 6 ins. ....	35.00	
* <i>Pinus flexilis</i> , 2-yr., S., 2 to 3 ins. ....	4.00	35.00
* <i>Pinus flexilis</i> , 3-yr., S., 2 to 3 ins. ....	6.50	
* <i>Pinus mugo</i> (True Dwarf Tyrolean), 2-yr., S., 3 to 4 ins. ....	6.00	50.00
<i>Pinus mugo</i> (True Dwarf Tyrolean), 3-yr., S., 4 to 6 ins. ....	7.50	60.00
<i>Pinus mugo pumilio</i> , 2-yr., S., 3 to 4 ins. ....	6.00	50.00
* <i>Pinus strobus</i> , 2-yr., S., 6 to 8 ins. ....	6.00	50.00
<i>Pinus thunbergii</i> , 3-yr., S., 8 to 12 ins. ....	5.00	40.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr., S., 4 to 8 ins. ....	5.00	35.00
3-yr., S., 6 to 10 ins. ....	6.00	50.00
4-yr., S., 12 to 18 ins. ....	75.00	
<i>Taxus capitata</i> , 2-yr., S., 3 to 6 ins. ....	12.00	100.00
<i>Taxus capitata</i> , transplants, 3 to 6 ins. ....	17.50	150.00
<i>Thuja orientalis</i> , transplanted understock .....	7.50	65.00
<i>Tsuga canadensis</i> , 2-yr., S., 4 to 8 ins. ....	6.00	50.00
<i>Tsuga canadensis</i> , transplants, 6 to 8 ins. ....	15.00	125.00
<i>Tsuga caroliniana</i> , 3-yr., S., 6 to 8 ins. ....	10.00	75.00
<i>Viburnum lantana</i> , 2-yr., S., 6 to 12 ins. ....	5.00	
<i>Viburnum setigerum</i> , 1-yr., S., 4 to 8 ins. ....	12.50	
<i>Viburnum wrightii</i> , 1-yr., S., 6 to 10 ins. ....	10.00	75.00

## Well-Established Cuttings from 2 1/4-in. Pots

	Per 10	Per 100		Per 10	Per 100
<i>Berberis julianae</i> .....	\$3.00	\$25.00	<i>Taxus media Halloran</i> .....	\$2.25	\$17.50
<i>Berberis verruculosa</i> .....	3.00	25.00	<i>Taxus media hatfieldi</i> .....	2.25	17.50
<i>Chamaecyparis cyano viridis</i> .....	2.25	17.50	<i>Taxus media henryi</i> .....	2.25	17.50
<i>Chamaecyparis filifera aurea</i> .....	2.25	17.50	<i>Taxus media Hicksi</i> .....	2.25	17.50
<i>Chamaecyparis plumosa aurea</i> .....	2.25	17.50	<i>Taxus media Moon's columnaris</i> .....	2.25	17.50
<i>Einkianthus campanulatus</i> .....	2.25	17.50	<i>Taxus media Vermeulen</i> .....	2.25	17.50
<i>Euonymus alatus</i> .....	2.25	17.50	<i>Taxus media wardi</i> .....	2.25	17.50
<i>Euonymus vegetus</i> .....	2.25	17.50	<i>Thuja occidentalis globosa</i> .....		
<i>Ilex aquifolium ciliata Major</i> .....	4.50	40.00	Howe type .....	2.25	17.50
<i>Ilex crenata convexa</i> .....	2.25	17.50	<i>Thuja occidentalis nigra</i> .....	2.25	17.50
<i>Ilex crenata helleri</i> .....	2.25	17.50			
<i>Ilex crenata microphylla</i> .....	2.25	17.50			
<i>Ilex crenata rotundifolia</i> .....	2.25	17.50			
<i>Ilex cornuta burfordii</i> .....	4.50	40.00			
<i>Ilex glabra</i> .....	2.25	17.50			
<i>Ilex opaca</i> , 4 to 6 ins. in the following named varieties) .....	4.50	40.00			
Arden .....	Joyce				
Cheerful .....	Lake City				
Christmas Tide .....	Mae				
Clark .....	Manig				
Compacta .....	Merry Christmas				
Della Bradley .....					
Farage .....	Uncle Tom				
<i>Ilex opaca masculina</i> .....	4.50	40.00			
<i>Juniperus depressa plumosa</i> .....	2.25	17.50			
<i>Juniperus glauca hetzi</i> .....	2.25	17.50			
<i>Juniperus horizontalis</i> .....					
Bar Harbor .....	2.25	17.50			
<i>Juniperus pfitzeriana</i> .....	2.75	22.50			
<i>Juniperus pfitzeriana nana</i> .....	2.25	22.50			
<i>Lonicera pileata</i> .....	2.25	17.50			
<i>Mahonia bealei</i> .....	2.50	20.00			
<i>Pieris japonica</i> .....	2.25	17.50			
<i>Prunus laurocerasus</i> .....	4.50	40.00			
<i>Rhododendron wilsoni</i> .....	4.50	40.00			
<i>Taxus baccata repandens</i> .....	2.25	17.50			
<i>Taxus canadensis</i> .....	2.25	17.50			
<i>Taxus cuspidata aurea</i> .....	2.75	22.50			
<i>Taxus cuspidata capitata</i> .....	2.75	22.50			
<i>Taxus cuspidata F &amp; F compacta</i> .....	2.25	17.50			
<i>Taxus cuspidata densiformis</i> .....	2.25	17.50			
<i>Taxus media browni</i> .....	2.25	17.50			

\*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

Due to handling costs, orders for less than \$5.00 cannot be accepted

### TERMS

Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. Five of one kind will be billed at the 10 rate; 25 at the 100 rate; 250 at the 1000 rate. From those not acquainted with our stock, a trial order will be appreciated. Packing extra at cost.

**HESS' NURSERIES**

**MOUNTAIN VIEW, N. J.**

will speak on "Ethics and Policing of Nursery Stock." Dr. William Snyder, of the department of ornamental horticulture, Rutgers University, will talk on "The Importance of Research in Holly."

"Holly in Arrangements" will be the subject of a lecture and demonstration by Prof. Henry Orr, of Alabama Polytechnic Institute, Auburn, Ala. Charles Hess, Cornell University, Ithaca, N. Y., has been invited to speak on "Mist Propagation with Holly." H. W. D.

## NEW YORK SHORT COURSE

As a result of a meeting of the educational committee of the New York State Nurserymen's Association held at Ithaca, N. Y., September 17, a program is being developed for a short course for nurserymen. The dates selected are Wednesday and Thursday, December 7 and 8.

The educational committee is made up of representatives from the several areas and nurserymen's associations of New York state and functions as a committee of the state association. Members aiding in planning the short course include Charles Mouquin, Mouquin's Nurseries, Old Brookville; Hewlett Lewis, Lewis & Valentine Nurseries, Roslyn; David Bulk, Bulk's Nursery, Babylon; Howard Taylor, Rosedale Nurseries, East View; Lewis Weinstock, Pound Ridge Nurseries, Pound Ridge; Clarence Vanderbrook, Commercial Enterprises of Newark, N. Y., Newark; A. L. Synesael, Jackson & Perkins Co., Newark; Ed Monin, Sheridan Drive Nurseries, Kenmore, and Bernard Stangler, Land O' Trees Nursery, Williamsville.


The group met at Statler hall, Ithaca, N. Y., Friday evening, September 16, and formulated a general outline for the course. After luncheon on Saturday, a brief tour of research work in progress in the department of floriculture and ornamental horticulture was made by the nurserymen, who expressed interest in present results in the response of woody plants to photoperiod as it modifies growth, flowering and rooting of cuttings.

## MINNESOTA MEETING

December 5 and 6 are the dates set for the annual meeting of the Minnesota State Nurserymen's Association at the Dyckman hotel, Minneapolis. S. N. Ruedlinger, Ruedlinger Nursery & Garden Center, St. Louis Park, secretary of the state group, states that the hotel is requesting early reservations for rooms, as there

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	Per 100	Per 1000
<i>Ilex crenata bullata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	\$20.00	\$180.00
<i>Ilex crenata bullata</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins. ....	25.00	240.00
<i>Ilex crenata hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins. ....	24.00	220.00
<i>Ilex crenata Stokes Pat. 887</i> , 2-yr., 2 1/4-in. rose pot, 2 to 4 ins. ....	35.00	300.00
<i>Ilex glabra</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Ilex glabra</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins. ....	24.00	220.00
<i>Juniperus Andorra compacta</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Juniperus chinensis pfitzeriana</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	25.00	225.00
<i>Juniperus chinensis pfitzeriana glauca</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	27.50	250.00
<i>Juniperus chinensis pfitzeriana glauca</i> , 2-yr., 2 1/4-in. rose pot, 6 to 8 ins. ....	30.00	275.00
<i>Juniperus glauca hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Juniperus glauca hetzi</i> , 2-yr., 2 1/4-in. rose pot, 6 to 8 ins. ....	27.50	250.00
<i>Juniperus Irish fastigiata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Taxus baccata repandens</i> , 1-yr., 2 1/4-in. rose pots, 3 to 5 ins. ....	25.00	230.00
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Taxus cuspidata capitata</i> , seedling-grown, 3-yr., 2 1/4-in. rose pot, 3 to 6 ins. ....	22.50	200.00
<i>Taxus cuspidata capitata</i> , seedling-grown, 3-yr., 2 1/4-in. rose pot, 4 to 8 ins. ....	27.50	250.00
<i>Taxus cuspidata Vermeulen</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Taxus intermedia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Taxus intermedia</i> , 2-yr., 2 1/4-in. rose pot, 5 to 12 ins. ....	24.00	220.00
<i>Taxus media Adams</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins. ....	18.00	170.00
<i>Taxus media Adams</i> , 2-yr., 2 1/4-in. rose pots, 5 to 12 ins. ....	24.00	220.00
<i>Taxus media andersoni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins. ....	18.00	170.00
<i>Taxus media andersoni</i> , 2-yr., 2 1/4-in. rose pots, 5 to 12 ins. ....	24.00	220.00
<i>Taxus media browni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins. ....	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 18, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 18, 2-yr., 2 1/4-in. rose pot, 5 to 12 ins. ....	25.00	230.00
<i>Taxus media hatfieldi</i> , No. 24, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Taxus media hicksi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Taxus media hicksi</i> , 2-yr., 2 1/4-in. rose pot, 5 to 12 ins. ....	24.00	220.00
<i>Taxus media Moon's</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Taxus media thayerae</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Taxus media wardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	22.50	200.00
<i>Taxus media wellesleyana</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins. ....	18.00	170.00
<i>Thuja Douglas Golden</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Thuja occidentalis elegantissima</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Thuja occidentalis globe</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	20.00	180.00
<i>Thuja occidentalis pyramidalis</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Thuja occidentalis Siberian</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00
<i>Thuja occidentalis Wintergreen Hetz</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	25.00	.....
<i>Thuja occidentalis woodwardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins. ....	18.00	170.00

<i>Taxus capitata</i> , seedling-grown, 2-yr., 3 to 6 ins. ....	\$10.00	\$90.00
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We also grow seedlings and field liners. A complete catalog on request.

## HEASLEY'S NURSERIES

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are several other conventions scheduled in the city at the same time that the nurserymen will meet. Reservations should designate the nursery group. Lawrence Bachman, Bachman's, Inc., Minneapolis, is chairman of the program arrangements.

### WISCONSIN MEETINGS

The Wisconsin Nurserymen's Association will meet this year November 30 to December 2, at Milwaukee, Wis. Wednesday, November 30, will be given to the third annual short course sessions. Thursday and Friday, the 39th annual convention of the association will be held, it has been announced by Thomas S. Pinney, secretary-treasurer.

### NEBRASKA DATES

Charles W. Andrews, Omaha, secretary of the Nebraska Association of Nurserymen, has announced the dates and place for the annual winter meeting of the organization as December 12 and 13, at the Cornhusker hotel, Omaha, Neb.

### HORTICULTURAL COUNCIL

Many interesting features make up the program of the 10th annual congress of the American Horticultural Council, Inc., scheduled at the Shoreham hotel, Washington, D. C., October 26 to 29.

At the opening session, Dr. Richard P. White, executive secretary of the American Association of Nurserymen, Washington, D. C., will be the moderator of a panel that will discuss "Long-range Objectives of the A. H. C." The following day, October 27, Henry Skinner, secretary, National Arboretum, United States Department of Agriculture, will preside at a breakfast meeting of the American Association of Botanic Gardens and Arboreta. Dr. Richard P. White will preside at the luncheon session when the speaker will be Alden Hopkins, resident landscape architect, Colonial Williamsburg.

Dr. W. E. Snyder, head of the department of ornamental horticulture at Rutgers University, New Brunswick, N. J., will talk on "Horticultural Research in the United States" at the afternoon educational session October 27. Representatives of the various All-America Selections groups and the president of the American Iris Society will talk on "Testing New Varieties" at the same session.

October 28, the registrants will visit the U. S. D. A. plant introduc-



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**Aucuba japonica nana** (Dwarf Aucuba, Female)  
Dark green leaves. A profusion of bright red berries.  
6 to 9 ins., once transplanted.....**\$16.00 \$128.00**

<b>Sherwood Cerise Azalea</b>		
A wonderful dwarf evergreen. Bright, clear cerise.		
3 to 6 ins., once transplanted.....	<b>\$14.00</b>	<b>\$112.00</b>

Flowers clear lavender. Hardy evergreen.		
1 to 3 ins., once transplanted.....	\$12.00	\$ 96.00

Compact dwarf and evergreen. Flowers the most brilliant blood-red imaginable.

6 to 9 ins., once transplanted.....	\$17.00	\$136.00
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<b>Cephalotaxus harringtonia fastigiata</b> (Plum Yew)		
Remarkable columnar, yew-like tree.		
9 to 12 ins., once transplanted.....	<b>\$24.00</b>	<b>\$192.00</b>

4 to 6 ins., twice transplanted	\$25.00	\$200.00
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***Chamaecyparis obtusa nana*** (Dwarf Hinoki Cypress)  
A real genuine dwarf having exceedingly dense, heavy foliage.

3 to 4 in., twice transplanted.....	\$18.00	\$144.00
<b>Chamaecyparis pisifera filifera nana aurea</b> (Dwarf Golden Thread Cypress)		

Heavy type. Velvety, dark golden filaments.		
9 to 12 ins., once transplanted.....	<b>\$22.00</b>	<b>\$176.00</b>

Well known and deservedly a great favorite; low growing. The side branches grow with a pleasing perfection of regularity; the leaves are small.

3 to 6 ins., once transplanted.....	\$10.00	\$ 80.00
6 to 9 ins., once transplanted.....	14.00	112.00

*Cryptomeria japonica elegans compacta* (Compact Plume  
Cryptomeria)  
Beautiful, dense, plume-like foliage.

9 to 12 ins., twice transplanted.....\$20.00 \$160.00

6 to 9 ins., twice transplanted.....**\$25.00 \$200.00**  
Cryptomeria japonica nana (Dwarf Cryptomeria)

*Cryptomeria japonica nana* (Dwarf Cryptomeria)  
Light green, hardy, very compact globe, extremely dwarf.  
6 to 9 ins., twice transplanted.....**\$25.00 \$200.00**

**Cytisus praecox** (Warminster Broom)  
Graceful, pendulous. An enormous profusion of cream flowers.

6 to 12 ins., once transplanted.....\$15.00 \$120.00

**Cytisus purgens** (Provence Broom)  
Dwarf, hardy, compact. A profusion of yellow flowers.

**Daphne mezereum rubra** (Red February Daphne)  
Delightfully fragrant, lilac-purple flowers.

Delightfully fragrant, lilac-purple flowers.  
1 to 3 ins., not transplanted..... \$ 9.00 \$ 72.00

**Erica carnea (King George)**  
.....

Low growing. Completely covered with red flowers.  
1 to 3 ins., once transplanted.....\$ 9.00 \$ 72.00  
**Erica carnea sherwoodii** (Sherwood Creeping Heath)

Low creeper. Flowers bright carmine-red.  
1 to 3 ins., once transplanted..... \$ 9.00 \$ 72.00  
**Gaultheria procumbens** (Wintergreen)

The fine foliage, the small, delicate, pink, bell-shaped flowers, the brilliant red berries and its hardiness combine to make it one without peer in its class.

2-yr., once transplanted.....\$10.00 \$ 80.00  
**Mahonia nervosa** (Long-leaved Hollygrape)  
 Plants grow 12 to 18 ins. tall, beautifully fernlike in form.

9 to 12 ins., once transplanted.....	\$17.00	\$136.00
<b>Osmarea burkwoodi</b> (Burkwood Osmarea)		
Delightful graceful evergreen. Fragrant flowers.		

**Phillyrea decora** (Lance-leaved Phillyrea)  
Elegant round-topped shrub. White flowers. Rare.

**Picea excelsa nidiformis** (Nest Spruce)  
Wonderful dwarf, dark green, flattened globe

**Picea excelsa sherwoodii** (Sherwood's Multnomah Spruce)  
Beautiful dwarf of immortals, blue-green, New

Beautiful, dwarf, irregular globe. New.  
6 to 9 ins., once transplanted.....**\$25.00 \$200.00**  
**Picea orientalis aurea** (Golden Oriental Spruce)

Hardy, rapid-growing, golden conifer.		
3 to 6 ins., once transplanted.....	\$18.00	\$144.00
<b>Pieris japonica</b> (Oriental Pieris)		

One of the very best evergreen ornamentals, 6 to 9 ins., twice transplanted.....	\$28.00	\$224.00
<b>Pinus griffithi</b> (Griffith Pine)		

Sometimes called the blue pine. Rare.  
3 to 6 ins., not transplanted..... \$ 8.00 \$ 64.00  
**Pinus jeffreyi** (Jeffrey Pine)

A rather open picturesque, spire-shaped conifer native of Oregon.  
9 to 12 ins., once transplanted ..... \$17.00 \$136.00

Pinus patula (Jellicote Pine)		
Silky foliage. Decidedly unusual. Lovely.		
4 to 8 in., not transplanted	\$ 3.00	\$ 54.00

6 to 9 ins., not transplanted.....	\$ 7.00	\$ 56.00
<b>Viburnum tinus lucidum</b> (Shining Laurestinus)		
Decidedly a superior variety.		
6 to 9 ins., not transplanted.....	\$ 12.00	\$ 92.00



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<b>BARBERRY</b> , mentorensis, 2½-in. pots .....	\$.025	\$.20
<b>CALICARPA</b> dichotoma, 2-in. pots .....	.20	.17
<b>FORSYTHIA</b> (Golden Bell) fortunei, 2-in. pots .....	.17	.15
intermedia spectabilis, 2-in. pots .....	.17	.15
ovata, 2-in. pots .....	.17	.15
Spring Glory, 2-in. pots .....	.30	.17
Lynwood Gold, 2-in. pots .....	.22	.20
<b>HYPERICUM</b> (St. John's-Wort) kalmianum, 2-in. pots .....	.20	.17
Hidecote, 2-in. pots .....	.25	.20
<b>KOLK WITZIA</b> (Beauty Bush) amabilis, 2-in. pots .....	.20	.17
<b>LONICERA</b> (Honeysuckle) korolkowi floribunda, 2-in. pots .....	.20	.17
morrowi, 2-in. pots .....	.17	.15
infantis sabell, 2-in. pots .....	.17	.15
<b>PHILADELPHUS</b> (Mock Orange) lemolnei Avalanche, 2-in. pots .....	.20	.17
lemolnei Enchantment, 2-in. pots .....	.20	.17
virginialis, 2-in. pots .....	.17	.15
<b>PHYSOCARPUS</b> opulifolius nanus, 2-in. pots .....	.17	.15
<b>PRUNUS glandulosa</b> (Flowering Almond) rocea, 2-in. pots .....	.20	.17
<b>SALIX</b> discolor, 2½-in. pots .....	.17	.15
<b>SAMBUCUS</b> (Elder) canadensis aurea, 2½-in. pots .....	.17	.15
<b>SPIRAEA</b> Anthony Waterer, 2-in. pots .....	.20	.17
arguta, 2-in. pots .....	.17	.15
freebell, 2-in. pots .....	.17	.15
japonica coccinea, 2-in. pots .....	.20	.17
reesianus, double, 2-in. pots .....	.25	.20
thumbergi, 2-in. pots .....	.17	.15
<b>VIBURNUM</b> opulus, 2½-in. pots .....	.17	.15
opulus sterile, 2½-in. pots .....	.17	.15

### VINES

<b>CELASTRUS</b> (Bittersweet) scandens, 2-in. pots .....	.17	.15
<b>EUONYMUS</b> fortunei coloratus, 3-in. pots .....	.30	.25
fortunei coloratus, 2-in. pots .....	.17	.15
<b>LONICERA</b> (Honeysuckle) japonica halliana, 2-in. pots .....	.15	.12
japonica, purple-leaved, 2-in. pots .....	.17	.15
sempervirens magnifica, 2-in. pots .....	.20	.17
sempervirens, yellow, 2-in. pots .....	.17	.15
tellmanniana, red gold, 2-in. pots .....	.20	.17

### SHADE AND ORNAMENTAL TREES

	Each per 100	Each per 1000		Each per 100	Each per 1000
<b>ACER</b> (Maple) ginnala, 3-in. pots .....	\$.025	\$.20	<b>ULMUS</b> (Elm) Buisman, 2-in. pots .....	\$.50	..
ginnala, 2-in. pots .....	.17	.15	<b>ZELKOYA</b> serrata, 2½-in. pots .....	.50	..

### EVERGREENS

	Each per 100	Each per 1000		Each per 100	Each per 1000
<b>JUNIPERUS</b> hetzi glauca 2½-in. pots, 2-yr. ....	\$.30	\$.25	<b>JUNIPERUS—Continued</b>		
2½-in. pots .....	.30	.17	sabina 2½-in. pots .....	\$.20	\$.17
horizontalis plumosa (Andorra) 2½-in. pots .....	.20	.17	sabina tamariscifolia 2½-in. pots .....	.20	.17
			sabina vonehron 2½-in. pots, 2-yr. ....	.30	.25
			2½-in. pots .....	.20	.17

### BROAD-LEAVED EVERGREENS

	Each per 100	Each per 1000		Each per 100	Each per 1000
<b>EUONYMUS</b> fortunei coloratus 2-in. pots .....	\$.30	\$.25	<b>EUONYMUS—Continued</b>		
2-in. pots .....	.17	.15	fortunei, upright 2-in. pots .....	\$.25	\$.20
fortunei minimus 3-in. pots .....	.30	.25	patens, large-leaved 2-in. pots .....	.17	.15
2-in. pots .....	.25	.20	patens, small-leaved 2-in. pots .....	.25	.20

Send for Complete List of Lining-out Stock

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"Your Wholesale Nurserymen"  
OTTAWA, KAN.

tion garden, Glenn Dale, Md.; the National Arboretum; the U. S. D. A. plant industry station at Beltsville, Md., and the chrysanthemum show of the Takoma Horticultural Society.

### HALT LICENSING ACT

Efforts of the North Jersey Association of Nurserymen to have a Hackensack ordinance, requiring the licensing of nurserymen, set aside have been successfully concluded. The ordinance has been ruled invalid, and if the city does not carry the case to the Appellate court, the matter is ended.

The Hackensack ordinance, which would have affected all nurserymen and gardeners working in the city, was called to the attention of the New Jersey group last April. The members instructed the executive committee to handle the matter and attempt to keep the ordinance from passage. The president, acting with an attorney, was unable to accomplish this, and the measure was passed by the city council.

After the ordinance had been studied by the attorney and the executive committee, the opinion was reached that the act was unfair, mainly because the decision to issue the license rested entirely in the hands of the chief of police. It was also believed to be unfair that nurserymen were required to have a license to work when workers in other industries were not required to be licensed.

The attorney was instructed to take the issue to court in an effort to have the ordinance rescinded. The New Jersey Association of Nurserymen gave its support to the local group after being informed of the problem. As reported, the joint efforts on the part of the trade have so far been successful.

It has been felt by members of the trade that while there are some unscrupulous operators who handle nursery products, reliable nurserymen should not be penalized for the acts of the others. Many members also feel that some standards should be established in the trade, but they should be on a state-wide basis and should be set up by the trade itself. The "certified tree expert" program is an example of such an effort. While at first that program was not widely known, now there is little tree work done in the area unless it is performed by a "certified tree expert."

Edward S. Wyckoff.

BEISWENGER'S, 4242 Spring Arbor road, Jackson, Mich., recently opened a new garden center.

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2000 9 to 12 ins., R.P. ....	\$0.30	\$0.25	\$0.20
2000 6 to 9 ins., R.P. ....	.20	.15	.12
2000 4 to 6 ins., R.P. ....	.13	.10	.08
600 12 to 15 ins., TTT. ....	.70	.60	.50
500 9 to 12 ins., TTT. ....	.50	.45	.40
<b>ABIES DOUGLASI</b> (Douglas Fir)			
1000 12 to 15 ins., R.P. ....	.25	.20	.15
3000 9 to 12 ins., R.P. ....	.18	.15	.12
2000 6 to 9 ins., R.P. ....	.10	.09	.07
<b>JUNIPERUS ANDORRA PLUMOSA</b> (Andorra Juniper)			
1000 12 to 15 ins., TTT. ....	.75	.70	.65
1000 9 to 12 ins., TTT. ....	.60	.55	.50
<b>JUNIPERUS HETZI</b> (Hetz Blue Juniper)			
400 15 to 18 ins., TTT. ....	1.10	1.00	.90
1000 12 to 15 ins., TTT. ....	.85	.80	.75
500 9 to 12 ins., TTT. ....	.65	.60	.55
<b>JUNIPERUS HIBERNICA FASTIGIATA</b> (Irish Juniper)			
500 12 to 15 ins., TTT. ....	.60	.55	.50
500 9 to 12 ins., TTT. ....	.50	.45	.40
<b>JUNIPERUS JAPONICA PROCUMBENS</b> (Japanese Creeping Juniper)			
100 9 to 12 ins., TTT. ....	.60	.55	.50
<b>JUNIPERUS KOSTERI</b> (Koster Juniper)			
400 12 to 15 ins., TTT. ....	.80	.75	.70
100 6 to 9 ins., TT. ....	.45	.40	.35
<b>JUNIPERUS PFITZERIANA</b> (Pfitzer Juniper)			
1000 15 to 18 ins., TTT. ....	1.10	1.00	.90
7000 12 to 15 ins., TTT. ....	.85	.80	.75
4000 9 to 12 ins., TTT. ....	.65	.60	.55
3000 6 to 9 ins., TT. ....	.45	.40	.35
<b>JUNIPERUS PFITZERIANA AUREA</b> (Gold Tip Pfitzer)			
200 12 to 15 ins., TTT. ....	.85	.80	.75
200 6 to 9 ins., TT. ....	.45	.40	.35
<b>JUNIPERUS SABINA</b> (Savin Juniper)			
500 15 to 18 ins., TTT. ....	1.10	1.00	.90
5000 12 to 15 ins., TTT. ....	.85	.80	.75
3000 9 to 12 ins., TTT. ....	.65	.60	.55
1000 6 to 9 ins., TT. ....	.45	.40	.35
<b>JUNIPERUS VIRGINIANA</b> (Eastern Red Cedar)			
2 to 3 ft., R.P. ....	.55	.50	.45
18 to 24 ins., R.P. ....	.45	.40	.35
9 to 12 ins., R.P. ....	.15	.13	.10
6 to 9 ins., R.P. ....	.10	.08	.06
2 to 3 ft., TTT. ....	.95	.85	.75
18 to 24 ins., TTT. ....	.60	.55	.50
<b>PICEA CANADENSIS ALBA</b> (White Spruce)			
500 12 to 15 ins., R.P. ....	.20	.18	.15
1000 9 to 12 ins., R.P. ....	.13	.10	.08
1000 6 to 9 ins., R.P. ....	.10	.08	.06

	Each Per 10	Each Per 100	Each Per 1000
<b>PICEA PUNGENS GLAUCA</b> (Colorado Blue Spruce)			
1000 9 to 12 ins., TT. ....	\$0.35	\$0.30	\$0.25
1000 6 to 9 ins., TT. ....	.30	.25	.20
<b>PICEA EXCELSA</b> (Norway Spruce)			
1000 12 to 15 ins., R.P. ....	.20	.18	.15
1000 9 to 12 ins., R.P. ....	.13	.10	.08
1000 6 to 9 ins., R.P. ....	.09	.07	.05
2000 9 to 12 ins., TTT. ....	.30	.25	.20
<b>PINUS BANKSIANA</b> (Jack Pine)			
1000 18 to 24 ins., R.P. ....	.30	.25	.20
<b>PINUS EDULIS</b> (Nut Pinyon Pine)			
500 12 to 15 ins., R.P. ....	.20	.18	.15
500 9 to 12 ins., R.P. ....	.15	.12	.10
500 6 to 9 ins., R.P. ....	.10	.08	.06
<b>PINUS MUGHUS</b> (Mugho Pine), dwarf			
500 12 to 15 ins., TTT. ....	1.25	1.15	1.00
<b>PINUS NIGRA</b> (Austrian Pine)			
10,000 12 to 18 ins., R.P. ....	.30	.25	.20
15,000 9 to 12 ins., R.P. ....	.12	.10	.08
10,000 6 to 9 ins., R.P. ....	.09	.07	.05
<b>PINUS PONDEROSA</b> (Bull Pine or Western Yellow Pine)			
10,000 12 to 18 ins., R.P. ....	.30	.25	.20
15,000 9 to 12 ins., R.P. ....	.12	.10	.08
10,000 6 to 9 ins., R.P. ....	.09	.07	.05
<b>PINUS STROBUS</b> (Northern White Pine)			
1000 9 to 12 ins., R.P. ....	.12	.10	.08
1000 6 to 9 ins., R.P. ....	.10	.08	.06
<b>THUJA OCCIDENTALIS</b> <b>PYRAMIDALIS</b> (Pyramidal Arborvitae)			
300 18 to 24 ins., TTT., heavy. ....	1.25	1.10	1.00
300 9 to 12 ins., TTT. ....	.50	.45	.40
<b>THUJA OCCIDENTALIS</b> <b>WOODWARDI</b> (Woodward Globe)			
400 12 to 15 ins., TTT. ....	.85	.80	.75
3000 9 to 12 ins., TTT. ....	.50	.45	.40
500 6 to 9 ins., TTT. ....	.40	.35	.30
<b>THUJA ORIENTALIS COMPACTA</b> (Chinese Arborvitae)			
1000 9 to 12 ins., R.P., every plant is compact ....	.20	.17	.15
1000 6 to 9 ins., R.P., every plant is compact ....	.15	.12	.10

## POTTED AND CANNED EVERGREENS

	Each Per 10	Each Per 100
<b>EUONYMUS ALATUS COMPACTUS</b>		
200 1-gal. cans, 12 to 15 ins. ....	\$1.20	\$1.10
500 4-in. pots, 9 to 12 ins. ....	.85	.75
<b>EUONYMUS COLORATUS</b> (Purple-leaved winter creeper)		
100 5-in. pots ....	.75	.70
200 4-in. pots ....	.60	.50
<b>EUONYMUS RADICANS</b> , upright		
100 1-gal. cans ....	1.35	1.25

# PLUMFIELD NURSERIES, INC.

FREMONT, NEB.



# The Introduction of New Plants

By John C. Wister

Whether we live in Maine or California, in cities, suburbs or on farms, we grow plants brought to us from many other parts of the world. Some of these plants came quite by chance; others were the result of systematic search. From the earliest prehistoric times the human race has been moving plants around the globe. Well-known examples of plants that were dispersed early are wheat, rye and other grains. Centuries later the so-called medicinal plants were grown and taken from place to place, and then in the days of Greece and of the early Christian era an interest was taken in plants as ornaments. Box, yew, myrtle and many other plants were grown and were taken from their Mediterranean homes to Great Britain. Botanists, indeed, have asserted that it is difficult to determine which species are natural to Great Britain, as so many plants were brought in by the Romans.

We have more knowledge, of course, of the introductions of more recent centuries—of the British and continental explorers who came to this country to find new plants to send back to Europe. And we know a good deal about early explorations in China, from the time the Portuguese found the orange and the French Jesuit Father d'Incarville brought us the ailanthus.

We know the plants brought by later Jesuit fathers—David, Delavay, Fatiges and others. We know of the explorations encouraged by Kew. We are familiar with the famous explorers of the Royal Horticultural Society—Douglas, Fortune and others, and of the 22 explorers sent out by the great British nursery firm of Veitch, including James Veitch, John Gould Veitch, Maries and E. H. Wilson.

We come to the explorations undertaken from this country and the work of David Fairchild, Frank Meyer, N. E. Hansen and E. H. Wilson and the more recent men who have followed or are following in their footsteps.

It is present-day exploration and its possibilities that I particularly

wish to emphasize. A respected botanical professor in one of our great universities has publicly stated that the day of exploration is over and that little more is to be found. He was referring, of course, to natural species. To those of us who grow plants, in distinction to those who merely look at them dried in papers in an herbarium, it would seem that the day of exploration is only just beginning, because there is so much more ahead that needs to be done and that never has been done, except in a small way.

A few examples will illustrate what I mean by this. Most of you are familiar with the fact that Father David discovered and sent

back to France *Buddleia davidi* and that this turned out to be an uninteresting plant. It was little grown and in a few years was dropped from cultivation. About 15 years later, Wilson found the same species in China, but being a horticulturist as well as a botanist, he recognized that the plants he saw were slightly different from the plants that Father David had introduced, even though they undoubtedly belonged to the same species. Wilson sent back plants which were at the time given the status of wild botanical varieties. The three best were named *magnifica*, *superba* and *wilsoni*. Those three were so superior in garden effect that the plants immediately attracted

## SURPLUS LANDSCAPE MATERIAL

*Taxus cuspidata*, up to 4½x6 ft.

*Taxus capitata*, up to 8 ft.

*Taxus hatfieldi*, up to 6 ft.

*Taxus hicksi*, up to 5 ft.

*Juniperus chinensis hetzi*, irregular and staked, up to 7 ft.

*Ilex rotundifolia*, up to 5 ft.

A large assortment of flowering shrubs, flowering trees and shade trees in specimen sizes.

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<i>Cornus florida</i>		
1-yr. S., grafting size .....	\$45.00	\$400.00
<i>Cornus florida</i>		
1-yr. S., below grafting size .....	35.00	300.00

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Address, "The Introduction of New Plants," delivered by John C. Wister, of Swarthmore College, Swarthmore, Pa., at the regional meeting of the American Association of Botanical Gardens and Arboretums during the National Shade Tree Conference at Santa Barbara, Calif., last month.

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Golden Harvest—Pure, large yellow	38.00
Marjorie Bowen—Soft salmon-rose, 28 ins.	40.00
Mothers Day—Pale yellow, 28 ins.	38.00
Princess Margaret Rose—Yellow, red edge	38.00
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Coxa—Orange-red, yellow margin, 24 ins.	75.00
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Mt. Tacoma—Pure white, 26 ins.	50.00
Nizza—Yellow striped, feathered red, 26 ins.	50.00
Uncle Tom—Dark glittering red, 28 ins.	95.00

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Bismarck, porcelain-blue	
King of the Blues, deep blue	
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Queen of the Blues, light blue	
Queen of the Pinks, large pink	
Yellow Hammer, golden-yellow	

Top size 18 to 19 cm.	Per 100 \$12.50
Extra bedding size 15 to 16 cm.	8.00

### MUSCARI

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Album—White	25.00

### DUTCH IRIS

Wedgwood—Light blue	10 to 11 cm. \$40.00	9 to 10 cm. \$28.00	8 to 9 cm. \$18.00
Golden Harvest—Yellow	\$28.00	\$18.00	\$10.00
H. C. Van Vliet—Blue	28.00	18.00	10.00
Imperator—Deep blue	25.00	16.00	10.00
White Excelsior—White	28.00	20.00	12.00

Terms of Sale—Prices quoted F.O.B. New York or Ridgewood, N. J., including freights, duties, packing, listing and insurance.

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(In bags of 100)	Per 1000
Top Size	\$45.00
Couleur Cardinal—Dark red	60.00
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#### Double Tulips

Electra—Vine-red	46.00
Mr. van der Hoef—Yellow	46.00
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Peachblossom—Deep pink	46.00

#### Parrot Tulips

Top Size 13 cm. and up	
Black Parrot—Black, 26 ins.	70.00
Blue Parrot—Heliotrope	50.00
Fantasy—Clear pink with green stripes	40.00
Orange Favorite—Deep fragrant	38.00
Red Champion—Immense, fiery-red	60.00
Sunshine—Golden-yellow	60.00
Therese—Cherry-red (strong)	50.00

#### Triumph Tulips

Top size 13 cm. and up	
Bandoeng—Mahogany-red, yellow edge	40.00
Crater—Deep crimson-red	42.00
Crown Imperial—Crimson-red with yellow border	42.00
Edith Eddy—Red with white border	42.00
Elmus—Scarlet, creamy-white edge	45.00
Kansas—Pure white	40.00
Mr. Kerbert—Appleblossom, 26 ins.	50.00
Red Giant—(the best red)	65.00
Rhineland—Orange-yellow	38.00
Ursa Minor—Golden-yellow	50.00

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Eichleri—Crimson-scarlet	38.00
Red Emperor—Extra-large, scarlet	65.00

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Heavy Mother Bulbs	Per 1000
Carlton—Large open cup	\$ 75.00
Geranium poetax—6 to 8 flowers	70.00
Golden Harvest—Very large yellow	100.00
Imperator—Large, pure white	105.00
King Alfred—Best yellow, frilled	80.00
Mount Hood—Large white	125.00
Rembrandt—Large yellow—Imp. K.A.	85.00
Scarlet Elegance—Yellow, cup deep orange	65.00
Texas—Double orange	90.00
Thalia—Pure white, 4 to 5 blooms	100.00
Mixture for Naturalizing—D. N. and Round	45.00

### CROCUS

	9 to 10 cm.	8 to 9 cm.
Purpureus Grandiflorus—	10 cm. \$22.00	9 cm. \$18.00
Large purple	34.00	22.00
Mont Blanc—Pure white	28.00	22.00
King of the Striped—White lilac	38.00	30.00
Mammoth Yellow—Golden-yellow	26.00	22.00
Mixture—All colors		
Snowdrops, nivalis		25.00
Scilla Campanulata—in 3 colors, blue, white, pink		20.00
Chionodoxa Luciliae		16.00

great attention. They became popular quickly. Some bright publicity man, realizing that the name buddleia would not strike a popular chord, called the plant butterfly bush. It was widely advertised. Plants were propagated by cuttings as easily as geraniums. Nurseries offered them at reasonable prices. In a few years they were sold in immense quantities all over this country.

#### Tree Peonies

Another example is found in our yellow tree peonies. Father Delavay found them first, and from them hybrids have been grown both in France and in this country. Many of the hybrids have the misfortune of hanging their heads, just as the parent plants sent from China had done. The flowers were hidden under the foliage. Then came Ludlow and Sheriff who, in their explorations on the border of Tibet, found a plant that they sent back under the name lutea Tibetan variety, or Ludlow variety. Botanists are still arguing whether this is a new species, a new botanical variety or just a new form. In any case, the reports coming from England say that the plant has larger flowers and stronger stems and its flowers do not hang under the foliage.

As far as I know, this peony has not yet bloomed in this country. Its value, of course, is something that will not be known for many years, but at least there is the possibility that a superior wild form has been given to us that may prove of great value to our gardens, not only for its good garden characteristics, but as a parent of new hybrids to be made by plant breeders of the future.

#### Superior Forms

There are to be found in our own great country, without going to China or elsewhere, innumerable forms of familiar species that are superior to the ones that we grow in our gardens. All it takes is someone with a keen eye to travel and search for them. Such work has been done by a number of people, as we well know, and our gardens have been enriched by them. It has, however, not been done by enough people. One of the most important things that arboretums and botanical gardens can do is to organize expeditions to make systematic search for such superior forms.

To send expeditions to China is an expensive matter. To explore near home does not cost nearly so much. It could, of course, be expensive if it was done on a wholesale scale as someday I hope it may be. It may,



# FIELD-GROWN LINING-OUT STOCK

All stock grown in open field beds.

	Each	Each
	per	per
	100	1000
<b>Azalea, Ghent (pontica).</b>		
5 to 8 ins., 3-yr., T.....	\$0.25	\$0.20
8 to 10 ins., 4-yr., T.....	.45	.40
<b>Azalea kempferi.</b>		
2-yr., T., field bed.....	.28	.24
<b>Azalea mollis (Chinese Azalea).</b>		
6 to 8 ins., 2-yr., T.....	.25	.20
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 4-yr., T.....	.65	.55
<b>Azalea schlippenbachii (Royal Azalea).</b>		
2-yr., field bed, T.....	.28	.25
3-yr., field bed, T.....	.35	.32
<b>Buxus sempervirens welleri.</b>		
6 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 3-yr., T.....	.45	.40
10 to 12 ins., 4-yr., T.....	.65	.55
<b>Chamaecyparis plumosa aurea.</b>		
6 to 8 ins., 2-yr., T.....	.35	.30
8 to 10 ins., 3-yr., T.....	.40	.35
10 to 12 ins., 3-yr., T.....	.50	.45

	Each	Each
	per	per
	100	1000
<b>Euonymus fortunei carrieri.</b>		
8 to 10 ins., 2-yr., T.....	\$0.30	\$0.25
10 to 15 ins., 3-yr., T.....	.35	.30
<b>Euonymus fortunei coloratus.</b>		
8 to 12 ins., 2-yr., T.....	.25	.20
12 to 15 ins., 3-yr., T.....	.35	.30
<b>Euonymus fortunei erectus</b> (Big-leaved Winter Creeper).		
8 to 10 ins., 2-yr., T.....	.22	.18
10 to 12 ins., 2-yr., T.....	.25	.20
12 to 15 ins., 3-yr., T.....	.35	.30
15 to 18 ins., 4-yr., T.....	.45	.40
<b>Euonymus patens.</b>		
10 to 15 ins., 3-yr., T.....	.75	.65
<b>Euonymus radicans coloratus</b> (Small-leaved).		
8 to 10 ins., 2-yr., T.....	.22	.18
10 to 12 ins., 2-yr., T.....	.25	.20
12 to 15 ins., 3-yr., T.....	.35	.30
<b>Euonymus radicans vegetus.</b>		
6 to 8 ins., 1-yr., T.....	.18	.16
8 to 10 ins., 2-yr., T.....	.25	.20
10 to 12 ins., 2-yr., T.....	.35	.30
12 to 15 ins., 3-yr., T.....	.55	.45

	Each	Each
	per	per
	100	1000
<b>Hex crenata (Japanese Holly).</b>		
6 to 8 ins., 1-yr., T.....	\$0.25	\$0.20
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	.40
<b>Hex crenata convexa (bullata).</b>		
6 to 8 ins., 1-yr., T.....	.25	.22
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 2-yr., T.....	.55	.48
<b>Hex crenata helleri</b> (Heller's Dwarf Holly).		
1-yr., field bed, T.....	.18	.16
2-yr., field bed, T., bushy....	.30	.25
<b>Hex rotundifolia (Round-leaved Holly).</b>		
6 to 8 ins., 1-yr., T.....	.25	.22
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 3-yr., T.....	.65	.55
<b>Juniper, Andorra.</b>		
6 to 8 ins., 1-yr., T.....	.28	.25
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 2-yr., T.....	.45	.40
12 to 15 ins., 3-yr., T.....	.50	.45
<b>Juniper glauca hetzi.</b>		
6 to 8 ins., 1-yr., T.....	.25	.20
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 2-yr., T.....	.45	.38
12 to 15 ins., 3-yr., T.....	.55	.45



Chamaecyparis plumosa aurea,  
3-yr., field transplant.

	Each	Each
	per	per
	100	1000
<b>Juniperus communis hibernica</b> <b>fastigiata (Compact Irish</b> <b>Juniper), improved variety.</b>		
8 to 10 ins., 2-yr., T.....	\$0.35	\$0.30
10 to 12 ins., 2-yr., T.....	.38	.33
12 to 15 ins., 3-yr., T.....	.45	.40
15 to 18 ins., 3-yr., T.....	.55	.50
<b>Juniperus pfitzeriana.</b>		
8 to 10 ins., 2-yr., T.....	.45	.40
10 to 15 ins., 3-yr., T.....	.55	.50

	Each	Each
	per	per
	100	1000
<b>Juniperus pfitzeriana compacta.</b> (Nelson's variety), Gray-blue, grows compact.		
6 to 8 ins., 1-yr., T.....	\$0.35	\$0.30
8 to 10 ins., 1-yr., T.....	.45	.40
10 to 12 ins., 2-yr., T.....	.65	.55

	Each	Each
	per	per
	100	1000
<b>Juniperus pfitzeriana aurea.</b>		
8 to 10 ins., 2-yr., T.....	\$0.45	.40
10 to 15 ins., 3-yr., T.....	.65	.55
<b>Juniperus stricta.</b>		
4 to 8 ins., 1-yr., T.....	.35	\$0.32
<b>Koeleuteria paniculata</b> (Golden-Rain Tree).		
8 to 12 ins., 3-yr., T.....	.18	.16
12 to 15 ins., 3-yr., T.....	.22	.20
18 to 24 ins., 4-yr., T.....	.30	.25
<b>Larix europaea (European Larch).</b>		
15 to 18 ins., 3-yr., T.....	.18	.12
18 to 24 ins., 4-yr., T.....	.25	.18
2 to 3 ft., 4-yr., T.....	.35	.28
<b>Leucothoe catesbaei.</b>		
6 to 8 ins., 2-yr., T.....	.25	.20
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	.40
<b>Liquidambar styraciflua (Sweet Gum).</b>		
8 to 12 ins., 2-yr., T.....	.15	.12
<b>Picea excelsa (Norway Spruce).</b>		
8 to 10 ins., 3-yr., T.....	.15	.12
<b>Picea pungens (Colorado Blue Spruce).</b>		
4 to 6 ins., 3-yr., T.....	.20	.15

	Each	Each
	per	per
	100	1000
<b>Pieris floribunda.</b>		
3 to 6 ins., 2-yr., T.....	\$0.25	\$0.20
6 to 8 ins., 2-yr., T.....	.30	.25
8 to 12 ins., 3-yr., T.....	.35	.30
<b>Pieris japonica.</b>		
6 to 8 ins., 2-yr., T.....	.28	.25
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 4-yr., T.....	.65	.55
<b>Pinus mugo.</b>		
4 to 6 ins., 3-yr., T.....	.18	.16
6 to 8 ins., 4-yr., T.....	.22	.20
<b>Pinus nigra.</b>		
4 to 8 ins., 3-yr., T.....	.08	.05
<b>Pyracantha coccinea lalandi</b>		
8 to 12 ins., 2-yr., T.....	.32	.30
12 to 15 ins., 3-yr., T.....	.45	.40
<b>Pinus sylvestris (Scotch Pine).</b>		
3 to 6 ins., 2-yr., S.....	.04	.02
4 to 8 ins., 3-yr., S.....	.05	.02½
(5,000 and up, less 5 per cent discount)		
<b>Rhododendron catawbiense, purple-pink.</b>		
2-yr., field bed, T.....	.22	.16
<b>Rhododendron maximum, light pink.</b>		
2-yr., field bed, T.....	.22	.16
<b>Rhododendron Hybrids, seed out</b> <b>of red-blooming plants.</b>		
2-yr., field bed, T.....	.35	.32
3 to 5 ins., 3-yr., T.....	.45	.40
5 to 8 ins., 4-yr., T.....	.55	.50
(Sturdy center stems to multi-branched heads)		
<b>Rhus cotinus (Smoke Tree).</b>		
10 to 12 ins., 3-yr., T.....	.18	.12
12 to 15 ins., 3-yr., T.....	.25	.20
<b>Taxus media hickel.</b>		
8 to 10 ins., 2-yr., T.....	.38	.32
10 to 15 ins., 2-yr., T.....	.45	.40
<b>Taxus cuspidata.</b>		
10 to 15 ins., 2-yr., T.....	.35	.30
10 to 15 ins., 3-yr., T.....	.45	.40
<b>Thuja occidentalis douglasii aurea.</b>		
6 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 2-yr., T.....	.45	.42
<b>Thuja occidentalis elegantissima lutea,</b> golden tip over dark green foliage, nonshedding.		
6 to 8 ins., 2-yr., T.....	.35	.30
8 to 10 ins., 3-yr., T.....	.40	.35
10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 4-yr., T.....	.55	.50
15 to 18 ins., 4-yr., T.....	.65	.60
<b>Thuja occidentalis globosa (Woodward</b> <b>Globe Arborvitae).</b>		
6 to 8 ins., 1-yr., T.....	.25	.20
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.40	.35
<b>Thuja occidentalis pyramidalis.</b>		
12 to 15 ins., 3-yr., T.....	.55	.50
<b>Tsuga canadensis (Hemlock).</b>		
6 to 8 ins., 3-yr., T.....	.25	.20
8 to 10 ins., 4-yr., T.....	.35	.30
10 to 15 ins., 5-yr., T.....	.45	.40
<b>Viburnum opulus, red berries, fall.</b>		
10 to 15 ins., 3-yr., T.....	.18	.12
cutback .....	.18	.12
18 to 24 ins., 4-yr., T.,		
cutback .....	.25	.20
<b>Viburnum opulus nana (Dwarf</b> <b>Bush Cranberry).</b>		
2-yr., field, T.....	.30	.25
3-yr., field, T.....	.40	.35

## Lining-out Stock

25 at the 100 Rate.  
300 at the 1000 Rate.

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(31 mi. north of Pittsburgh, Pa., on Rt. 19)  
R. D. 1, HARMONY, PA.

however, be done cheaply by utilizing the services of professional botanists and of professional horticulturists plus the many hundreds or thousands of skilled amateur gardeners who are fond of nature and who like to go off on summer trips. Many of them could be urged to keep their eyes open for some particularly fine plant.

This is now being done in the case of the western azalea, through the efforts of the officials of the Tacoma

Rhododendron Society. They have not only personally gone on hikes in the mountains, but have secured the cooperation of botanists in institutions in the states of Oregon and California. Some of these botanists have led trips of students to mountains near them, just for the purpose of picking up forms of this flower that seemed to them different from the ones ordinarily grown.

No one can say, of course, how successful they will be, but I have

seen photographs of some of the plants brought in, which seemed to give great promise. What I, as an easterner, have hoped the most, of course, has been that in the course of their travels they would find certain plants which, although they might not be more spectacular in bloom, might prove to be more adaptable to the conditions of the east, where summers are hot and the rainfall is sometimes scanty.

For gardens in our colder climates

## NORTHERN-GROWN STOCK

### LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
<i>Clethra alnifolia</i>		
18 to 24 ins., clumps	\$4.00	\$35.00
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
<i>Ilex verticillata</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps	6.00	50.00
2 to 4 ft., clumps	8.00	70.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	6.00	50.00

### SUGAR MAPLES

Unit price in quantities

	10 to	50 to
	49	250
<i>Acer saccharum</i>		
1 1/4 to 1 1/2-in. cal.	\$ 4.00	\$ 3.50
1 1/2 to 1 3/4-in. cal.	6.00	5.00
1 3/4 to 2-in. cal.	7.00	6.00
2 to 2 1/2-in. cal.	9.00	8.00
2 1/2 to 3-in. cal.	12.00	11.00

### CLUMP BIRCH

	Per 10	Per 100
<i>Paper Birch</i>		
4 to 8 ft.		
3 stems and up	\$30.00	
6 to 8 ft.		
3 stems and up	40.00	
<i>Gray Birch</i>		
4 to 8 ft.		
3 to 6 stems	25.00	\$200.00
6 to 8 ft.		
3 to 6 stems	35.00	250.00

All stock is first-quality collected material except as otherwise noted. Send for complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. We do not have Japanese beetle.

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2 to 7-in. cal.

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## DOUGLAS FIRS

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Norway Spruce

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*Best Grown Trees in the East,*  
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*QUERCUS palustris*, 3 to 3 1/2-in. and 4 to 5-in. cal.  
*GLEDITSIA triacanthos*, 3 to 3 1/2-in., 4 to 5-in., 5 to 6-in. and 6 to 8-in. cal.  
*PLATANUS acerifolia*, 2 to 2 1/2-in., 2 1/2 to 3-in. and 3 to 3 1/2-in. cal.  
*ACER platanoides*, 2 to 2 1/2-in. and 4 to 5-in. cal.  
*ACER saccharum*, 2 to 2 1/2-in. cal.  
*PINUS nigra*, 4 to 5 ft. and 5 to 6 ft.  
*PINUS resinosa*, 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.  
*PINUS strobus*, 8 to 10 ft., 10 to 12 ft. and 12 to 14 ft.  
*MALUS* in variety, 6 to 8 ft., 8 to 10 ft. and 10 to 12 ft.  
*FRENCH HYBRID LILAC*, 4 to 5 ft.  
*TAXUS hicksii*, 18 to 24 ins.

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## READY NOW

	Per 100	Per 1000
<i>Cornus florida</i>		
S., 1-yr., grafting size	\$7.50	\$50.00
S., 1-yr., below grafting	5.00	40.00
<i>Ampelopsis veitchii</i> (Boston Ivy)		
S., 1-yr., No. 1	7.50	60.00
S., 1-yr., No. 2	5.00	35.00
<i>California Privet</i>		
1-yr., R.C., 12 to 18 ins.	5.00	45.00
2-yr., R.C., 18 to 24 ins.	7.50	60.00

Free packing for cash with order.

### BROUWER'S NURSERIES

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### MYRICA PENSYLVANICA

1-yr. S., 4 to 8 ins.

\$4.00 per 100

\$35.00 per 1000

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*Taxus capitata*, 4 1/2 to 7 ft.

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we need explorations as far north and at as high an altitude as the particular species in question will grow. Winter hardiness is not so important for California and the Pacific northwest, but there similar explorations for wild plants can be undertaken, looking for forms of species that would adapt themselves better to garden conditions than the forms of the same species that are now grown.

I cited in the A. A. B. G. A. Newsletter the case of the late C. D. Beadle. After he was 70 he devoted the last years of his life to travels in the spring in his automobile, merely keeping his eyes open for unusual color forms of azaleas. The sections of the Carolina and Georgia mountains which he traversed had been thoroughly explored by botanists for a century or more. He did not find any new species. He did find 3,300 interesting and distinct plants, which he numbered. He described each and made herbarium specimens and, most important from our point of view, he brought living plants back to the garden on the Biltmore estate in North Carolina, where they are now growing. Some of these azaleas are of great beauty and will at some future time be important commercially in horticulture. Many others will prove to be duplicates or duds. That is perfectly natural and to be expected. The point I am trying to make is that this one man alone, in the course of the last 10 years of his life, brought in plants which will enrich our gardens.

### Watch Plant Collections

It is not even necessary to go out in the wild to search for new plants. Many fine plants practically unknown except to botanists can be found by visiting arboretums, botanical gardens, nurseries and private gardens. Some arboretums have recognized fine new plants appearing spontaneously. Witness *Malus arnoldiana*, springing up in the Arnold Arboretum near the crab apple collection. It looked so good that it was named and made available to our gardeners.

A. F. den Boer, perhaps our greatest authority on crab apples, went from his own park in Des Moines to the neighboring town of Boone and, because he kept his eyes open, found a particularly fine form of the wild Iowa crab, which no one in the town of Boone had even noticed. He took back scions and propagated the form. It will soon be in commerce under the name of Boone Park.

Many nurserymen recognize superior plants among the varieties they

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**PRINCETON-QUALITY NORWAY MAPLES** are nationally recognized as the best that can be produced. They have bushy, fibrous roots, shapely, symmetrical tops, and straight trunks.

	Unit Price in Quantities	
	10 to 49	50 to 249
5 to 6 ft. ....	\$ 2.20	\$1.75
6 to 8 ft. ....	3.00	2.50
8 to 10 ft., 1 to 1 1/4-in. cal. ....	4.40	3.50
9 to 11 ft., 1 1/4 to 1 1/2-in. cal. ....	6.00	5.00
10 to 12 ft., 1 1/2 to 1 3/4-in. cal. ....	8.80	7.00
11 to 13 ft., 1 3/4 to 2-in. cal. ....	11.00	9.00

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grow from seedlings, but do nothing about them, because of the trouble or the expense that it would involve to propagate them and then publicize them. We ought to be on the lookout for these, and if the nurserymen are not prepared to exploit them, perhaps we could take over the best of them, test them thoroughly, and, if they prove worthy, make them available.

There are plenty of interesting but nearly unknown plants in private gardens. A member of one of the Philadelphia garden clubs went one day to Wilmington and noticed a plant of *Calycanthus floridus* which had a fragrance quite different from the one in her own garden. She begged a piece and now has it growing in her garden alongside the

common form. The selected form has never been propagated commercially. It should be. I do not mean that it is a world-startling plant, but it is a charming plant and gives a fragrance different from the one usually found in old gardens. Our arboretums, by the way, could do a service to horticulture by making available to nurseries plants of their truly fragrant forms of this species. The plants ordinarily sold under the name *Calycanthus floridus* from nurseries are without fragrance.

### Arboretum Assistance

Arboretum executives, as well as nurserymen and amateurs, should be always looking for the plant which is not only different but better. Too often the plants which nurserymen

of the past century picked out to propagate were different, but were not, in my opinion, better.

There are many things that arboretums and botanical gardens can do to help plant introduction without any real expense to themselves. I know of a number of examples personally. Here are two of them that concerned Professor Sargent and E. H. Wilson. A Pennsylvania farmer who had just returned from the army in 1920 was strolling in his woods and noticed that the native azaleas there were not all alike. He picked up and pressed a couple that were different and more beautiful than the others and sent them to the Arnold Arboretum. How he, in a small community, had ever heard of the Arnold Arboretum I do not



## BARGAINS In Lining-out Stock

We have not raised the price of most of our small plants in years, but the price of landscape stock is steadily advancing. Plant some of our items now and make yourself some real money.

### PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil.

	Per 100
4 to 6 ins., T.	\$15.00
6 to 8 ins., T.	20.00

### ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yew and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.

	Each
6 to 8 ins., 2-yr., T.	15c
8 to 10 ins., 2-yr., T.	20c

### ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now.

For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.

	Per 100
8 to 12 ins., TT.	\$15.00
12 to 15 ins., T.	25.00

### AZALEA KURUME

Very hardy. Will stand 19 degrees below zero. Gives a great variety of color and types, from choice whites to orchids, deepest pinks and reds.

2-yr., T., 4 to 8 ins. \$15.00 per 100.

Also *Azalea Hindogiri*.

3 to 5 ins., T., \$15.00 per 100.

### JAPANESE BOXWOOD

*Buxus japonica* is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr., T., \$10.00 per 100.

Send for list of rare plants.

### ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

know! But he had heard of it and he sent the flowers there with his questions.

Professor Sargent saw the letter, became interested in the man, explained to him to what species these azaleas belonged and urged him to be on the lookout for particularly good forms and also to grow in his garden other azaleas and rhododendrons. After the man had bought a few well-known kinds and got started, Mr. Wilson arranged to send him seeds of species not ordinarily in commerce. Later Mr. Wilson made it possible for him to get pollen from rhododendron growers in England. The result has been that this man, with no botanical training, no horticultural experience beyond his general farm and orchard knowledge, a year or two ago received in recognition of his fine breeding work the gold medal of the American Rhododendron Society. You all know whom I am talking about—Joseph Gable, Stewartstown, Pa.

### Another Breeder Aided

This story was almost repeated a little later in the case of C. O. Dexter, Sandwich, Mass. A landscape architect had planted a good selection of rhododendrons and azaleas for him. He became interested in them and wanted additional species. Professor Sargent and Mr. Wilson enabled him to get them. He took up breeding on a large scale — grew about 10,000 seedlings a year during the last 20 years of his life. He kept no records and his plants usually were not marked. After his death, there remained scattered collections of them in the gardens of people to whom he had given or sold unbloomed seedlings. A group of men from the American Rhododendron Society has been trying to find which are the best of the many thousands of seedlings they have examined in a score of gardens in the east. If they can do that, they will perform a great service for eastern rhododendron growers. Among the institutions represented in this small group of men are the Arnold Arboretum, the National Arboretum, Cornell University, and, I am proud to state, the Scott Foundation, at Swarthmore.

Could not literally dozens of amateurs be found who might do similar work in the next quarter century, if they had the encouragement of a few people in our association, who would encourage them and guide their early footsteps?

### Specialists' Contributions

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### LINING-OUT STOCK

ILEX CRENATA,	Per 100	Per 1000
seedling-grown		
4-yr., XX, field,		
heavy	\$40.00	\$350.00
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2-yr., X, field-bed.	25.00	200.00
PIERIS JAPONICA		
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EVERGREEN TREE LINING-OUT STOCK

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that they did a quarter of a century ago. Economic conditions, the high cost of labor, particularly, and the near impossibility of getting good labor that is interested in plants have forced them to cut down on the items they grow and to grow, instead, larger quantities of fewer kinds. This is a severe blow to American horticulture, which might have developed many more wonderful nurserymen like Thomas Meehan or Henry Hicks, or like the German Ludwig Spaeth or the French Vil-morin or the British Veitch. No one can blame these nurseries. Conditions have forced them into this decision.

Fortunately, to fill the gap left there have arisen many amateurs who have gone into business on a small scale with some particular plant. This is particularly to be noted in such plants as iris, daffodils, poenies, hemerocallis, gladioli, dahlias, chrysanthemums, African violets and other relatively small plants that fit in the back yard. Our greatest advances are now coming from such men. Cannot the members of our association encourage them? Cannot these back-yard specialists indeed become associate members of our association in some way in order to keep in closer touch with the work of arboretums and to learn what plants or what pollens are to be had of the rarer kinds not ordinarily seen in nurseries, which they might advantageously use in their breeding?

#### Association Efforts

No one arboretum or botanical garden can do this alone. Through our association, however, we can encourage all institutions to help amateurs whether nearby or at a distance. We might even outline objectives or work needed in certain groups of plants which might interest garden clubs enough to take some of their attention away from artistic arrangements and put it on what seems, to me, the most important phase of producing new plants superior to those that have gone before.

After the new and superior forms of plants have been discovered, tested and evaluated there remains the job of properly publicizing them and making them known to the gardening world. Most of the institutions to which our members belong have publications which can give at least brief accounts of the new plant. I commend to your attention the recent release by Prof. H. L. Lantz, of Iowa State College, of the story of the Jonadel apple—brief and to the point and in its last paragraph

now a safe

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nursery  
seedlings



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Privet, Green Barberry, Red Barberry  
(fine strain).

Seedlings and transplants.

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enumerating the reasons why this apple is to be introduced.

This is the best type of publicity—brief, to the point and free of exaggerated claims. Once a statement like this has been officially sent out, nurserymen will be anxious to get the plant and the gardening press will be anxious to give it to its present-day enormous public.

None of our members are equipped to pack and ship quantities of plants. We have not yet, as I hope someday we shall have, a central distributing point for new plants, such as that operated by the New York Fruit Testing Association. A few plants will undoubtedly be sent out to special friends of the institution, but these are not important numerically in getting the plant distributed.

We have, therefore, to rely upon the nurserymen, with whom satisfactory arrangements can be made along the lines suggested by Donald Wyman in his recent book and adopted officially at the Arnold Arboretum and quoted in the book review in our A. A. B. G. A. Newsletter No. 20, October, 1954.

**LANDSCAPE MEN TEACH**

[Continued from page 7]

activity of this nature might do well to think about two important facts indirectly alluded to in this brief recital, first, the value both in personal satisfaction and in monetary reward of this form of community service, and second, the ease with which it was accomplished.

Even if there had been no immediate reward in the form of new business, which there was in this case, substantially, there was the lasting satisfaction of having participated in a most worthwhile community project. It is an understandable human trait to feel pride in being accepted as an authority in any line of endeavor, but when that endeavor is one of the arts that touches the home and its occupants so intimately and so frequently as does landscaping, then that feeling of deep satisfaction in a job well done easily transcends any financial reward emanating therefrom.

Because nurserymen are constantly instructing customers on the limitless problems associated with landscaping they should be and usually are good talkers and teachers; therefore, it was relatively easy for members of the association to take on this class assignment for a public school. Other groups of nurserymen would have the same experience.

Several factors contributed to

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**Taxus capitata** . . . . . up to 7 ft. high  
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**Taxus brevifolia** . . . . . up to 6-ft. spread  
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Also Hybrid Rhododendrons, Azaleas in fine variety, Pieris Japonica, etc., at reasonable prices. Send for list.

Quality lining-out stock a specialty.

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1-yr. S., 3 to 6 ins.

\$15.00 per 100

\$125.00 per 1000

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MOUNTAIN VIEW, N. J.



making this work move along smoothly: (1) A good spirit of cooperation among members of the association; (2) imagination and originality in planning and presenting the lecture and demonstration; (3) a willing attitude on the part of all to give generously of time and plant materials.

#### The Local Level

"It was a stimulating experience for me to take on this teaching assignment," declared Clifford Mathison. "At first I felt a trifle uneasy, but soon discovered it was just as easy for me to talk to 30 persons as it was to three, except I had to talk a little slower and louder. We probably were not so polished as teachers ought to be, but the class sure made us think we were capable. We made a lot of friends; they must have liked us, because they have invited us back."

To become successful, the "Plant America" program must be sold at the local level by local nurserymen. It must be sold and promoted through every publicity avenue available—TV, radio, newspapers, window displays, garden shows and, of course, educational meetings such as the one just described, which happens to be a form of low-pressure selling of the most effective kind.

#### DR. DONALD WATSON WEDS

Recent announcement was made of the marriage of Dr. Donald P. Watson, associate professor in the school of agriculture, department of horticulture, at Michigan State University, East Lansing. The bride is the former Barbara Jane Ingram, of San Diego, Cal., a former resident in Michigan, who attended Miss Newman's School, at Detroit, Mich., Randolph Macon Woman's College, in Virginia, and the University of California. Dr. Watson is a graduate of the University of Toronto, Toronto, Canada; the University of London, London, England, and Cornell University, Ithaca, N. Y.

#### ROSE SOCIETY ELECTS

Fred W. Walters, La Canada, Calif., was elected president of the American Rose Society in the organization's 1955 national ballot. Other officers named included the following: John R. Patterson, Moline, Ill., vice-president; Harry L. Erdman, Hershey, Pa., treasurer, and directors at large, William H. Bies, Clayton, Mo.; Fred S. Glaes, Reading, Pa.; Mrs. S. A. Steier, Salt Lake City, Utah, and Alvin P. Lichtentag, New Orleans, La.

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Browni .....	10 to 12 ins. ....	.65
Cuspidata .....	10 to 12 ins. ....	.60
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Thayerae .....	12 to 15 ins. ....	.70
Wardi .....	10 to 12 ins. ....	.60

Orders for autumn shipment given preference.

250 at 1000 rate, less than 250 add 10%.

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1 to 3 mm. in caliper, 8 to 10 ins. in height.....	\$10.00
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3 to 8 mm. in caliper, 10 to 24 ins. in height.....	22.50

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GLEN HEAD, N. Y.

## THIS BUSINESS OF OURS

*Reflections on the Problems of Nurserymen*

By E. Sam Hemming

### SEVERE PRUNING

The practice of giving plants a severe pruning seems to be one that has fallen by the wayside, particularly in landscaping and garden maintenance. It is used to some extent in nurseries, but rarely on customers' grounds; yet the practice has many vital uses. The customer is too impatient to permit it these days, although his plants would benefit in consequence.

When the nurseryman transplants a tree to a customer's grounds, either bare root or B&B, about the most that will be permitted is a light pruning. If the trees were pruned back to short spurs, a great many more trees would survive and they would more than catch up to those left unpruned. Imagine what the customer would say if the nurseryman planted an avenue of Liquidambar (sweet gum), six to eight feet or eight to 10 feet, and then cut the trees off right to the ground and let them make a new trunk! Yet this is the best way to get a nice, even stand of this tree, which is so difficult to transplant. This practice is sometimes used in nurseries to get straight trunks on trees like gums and even Chinese chestnuts.

### Rehabilitation Measure

Often the best way to rehabilitate an old, crippled shade tree or even a row of trees is to give it, or them, a really severe pruning. Prune the branches back to where they may be as much as 10 or 12 inches in diameter. Such trees will usually come out with vigorous shoots. Such pruning must be done just before new growth is made in the early spring. It cannot be done when the plant is in full leaf; in fact, it is a good rule never to reduce the foliage on a plant more than one third, on rare occasions one half.

Some years ago we planted a block of white dogwood collected from our woods. These were mostly about one inch in caliper and we pruned branches right back to trunks, and the tops back to six feet. When pruned, the block looked exactly like a bunch of Lima bean poles, yet in two years they made the best looking block of standard dogwoods I have ever seen.

On another occasion we moved an elm six to seven inches in caliper that was in an awkward spot; so all we could do was grub it out. The top was pruned back to stubs, so that the trunk was only about eight or nine feet high. When planted this tree eventually made a better looking one than similar-size trees with a 5-foot ball and the top unpruned.

Not all evergreens will respond to this kind of treatment, but queer misshapen American hollies can be cut right down to the ground in

February or March and they will make the best type of bushy plants. If you cut a nandina right back to the ground in the fall, it will usually die; if you cut it in the early spring, it will make a beautiful shrub.

### Boxwood Pruning

Sometimes in formal gardens, for instance, it is desirable to cut English boxwood back severely. If it is done just as the tiny buds are beginning to swell in the spring, box can actually be sheared back hard enough to take all the foliage off. The yews can also be pruned back to heavy stumps and will feather out again. Similarly the arborvitae, junipers and retinosporas will respond to such severe pruning.

The pines, spruces and firs will not usually respond so well to severe pruning. As a rule, they will not sucker from the stump if cut back

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Cotoneaster dielsiana, bare-root, 18 to 24 ins. .... .75

Cotoneaster divaricata, bare-root, 18 to 24 ins. .... .75

Thuja occidentalis pyramidalis, B&B, 3 to 4 ft. .... 2.50

### Viburnum carlesi

2-year seedlings, transplanted, 12 to 18 ins. .... .75

2-year grafts, transplanted, 18 to 24 ins. .... 1.25

4-year grafts, twice transplanted, B&B, 18 to 24 ins. .... 1.75

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SHRUB OAK, N. Y.

to the ground nor respond too well if their side branches are cut in close.

The hardwood, slow-growing trees, such as oak, maple and beech, respond well to having their side branches pruned severely, but not so well to having their trunks cut to the ground. Young Norway maples can be made to grow straight trunks in the nursery by being cut back to the ground.

Severe pruning is more commonly used on flowering shrubs, but even there the practice has changed. My father said that 50 years ago it was common practice to plant a shrub border and then cut all the plants back to six or eight inches. Imagine the fuss that would be made if we did this today. Yet most nurserymen agree that better looking plants would result. Even moving shrubs B&B does not make up for it.

### WATER EFFECTS

[Continued from page 13]

less the pool is large enough for the job.

Rarely should blue stones or comparables be used around a pool edge, since they are artificial looking and may cause uncertain footing.

The vegetation about a pool should be selected wisely. Turf may slightly overhang the edges, as may drooping leucothoe. A branch dipping into the water is attractive and often in good taste for informal areas. A straight-growing tree is usually not so desirable as one with a twist or turn in its trunk. The leaning tree adds a grace and charm to the water feature and usually emphasizes the importance of your pool — but in a gentlemanly way.

Multiple-stemmed trees, such as flowering dogwood, crab apple, shadbush, gray birch, the silk tree, Albizzia julibrissin, and others, are often more desirable than those of one stem. They add a stability to the area and create a more lasting interest in the immediate locality.

Rarely should a tree be placed behind the pool so that the pool is evenly divided. By placing it toward one side or the other, the tree looks more as though it grew there instead of being planted. This idea, of course, refers more to informal areas, but can sometimes be applied to formal developments.

### Cooling Effect

I remember seeing one individual make a simple water area by running a hose behind a planting of mountain laurel so that at night, as the family sat on the rear porch of

## HOLLY

### ENGLISH AND CHINESE—Potted, 3 to 6-in. pots

Aquifolium	Donningtonensis	Pyramidalis
Alta Belgica	Father Charles	Compacta
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Aureo-Marginata Ovata	Jan Van Tol	Aqui-Pernyi
Aureo-Regina	Laurifolia	Brilliant
Balearica	Lem's Silver	Aqui-Pernyi Male
Bicolor	Lichtenthalli	Ciliospinosa
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### B&B sizes, up to 5 ft.

### AMERICAN—Potted, 3 to 6-in. pots

Angelica	Greta	Merry Christmas
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Delia Bradley	Leather Leaf Male	Sally
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### B&B field plants, up to 8 ft.

### FINE BLOCKS OF:

Taxus, spreading and upright; Juniper; Arborvitae; Hemlock; Pink and White Dogwood; Magnolia; Flowering Crab Apple; Euonymus; Azaleas; Pieris; Ilex Convexa; Kalmia; Rhododendron, hybrids and native; and others.

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### FALL SURPLUS

	Each
50 Carpinus betulus fastigiata, 5 to 6 ft. ....	\$6.00
40 Laburnum vossii, 6 to 8 ft., 3-yr. ....	5.00
50 Maackia amurensis, 3 to 4 ft. ....	1.50
50 Pieris japonica, 15 to 18 ins. ....	2.00
20 Prunus serrulata amanogawa, 6 to 8 ft., 3-yr. ....	5.00
50 Prunus subhirtella pendula, 3-yr. ....	6.00
200 Taxus, 16 to 24 ins., you dig.	

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60 acres growing. Skaneateles, N. Y.

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the house, water splashed over the foliage nearby. This is also a way to keep cool on a hot night.

Birdbaths as water areas have become popular, and because of this people are more aware of the kinds of birds in their neighborhood. The bath should be placed so that it can be easily seen by your clients. There are some new good lightweight birdbaths whose tops may be easily removed and cleaned, because this is necessary. Fresh water should be added daily, since the birds, like ourselves, do not enjoy stale water, and it soon becomes that way. The surroundings should attract birds, and the former can include berried shrubs, a small feeding station and nesting places. If the birdbath is low, be sure it is placed far enough from low-hanging shrubs so that cats cannot prey.

Water can be a restful, interesting feature. It all depends on how and where it is used in the landscape.

### NEW AND UNUSUAL PLANTS

[Continued from page 14]

plant, as a foundation plant or as a facing plant in sun or part shade. The species, which has green foliage, is generally hardier than the variegated variety, but not so showy nor interesting.

#### Abelia Sherwood

The glossy abelia is often overused and abused throughout the south. However, the Sherwood abelia should be readily accepted, for it is a dwarf plant, reaching a height of less than three feet. The flowers are pink. Sherwood abelia should not need the heavy pruning often required on glossy abelia.

Cotoneasters are a neglected group of plants in the south. Yet,

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Assortment of Large-size Plants for Landscaping Planting  
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### DEL-MAR-VA NURSERIES

Growers of Quality  
Taxus, Ilex and other Ornamentals.

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**HENRY LEUTHARDT**  
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## HEMLOCK

Rhododendron—Kalmia  
Azalea

CURTIS NURSERIES  
CALICOON, N. Y.

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within the group are plants ranging in size from ground covers to dwarf shrubs and up to plants that approach small trees in size. Most cotoneasters are best used in full sun or only partly shaded areas. I can only list some species that should be used oftener: *Cotoneaster dammeri*, bearberry cotoneaster; *C. conspicua* decora, necklace cotoneaster; *C. pannosa*, silver-leaved cotoneaster, and *C. salicifolia*, willow-leaved cotoneaster.

### Viburnums

Viburnums are common in many sections of the south, and one species, *Viburnum davidi*, David viburnum, is a dwarf evergreen with blue fruit. The plant should be used in part to full shade and would make an interesting addition when grown well.

### APPLE ROOTSTOCKS

[Concluded from page 11]

was quite understandable, because air temperatures ranged up to 118 degrees Fahrenheit on sunny days, and even with one layer of cheesecloth the temperature in the box occasionally reached 110 degrees. Two and three layers of cheesecloth or one layer of burlap gave better protection, for under these the temperatures were much lower, ranging from 93 to 100 degrees. Rooting was greater at these lower temperatures.

Continuous mist was quite promising as a propagation technique for rooting leaf bud cuttings of this apple rootstock. From reports on other crops, however, interrupted mistings may be more beneficial.

Leaf bud cuttings are easy to obtain in large quantities, and they are easily handled. Although results of these preliminary tests are promising, there is, however, much to be learned about leaf bud cuttings of apples. All cuttings in these tests were taken when the buds were mature, similar to those used in nursery budding, and this advanced maturity was the apparent cause of leaf abscission. Abscission was particularly heavy under continuous mist and may have been enhanced by an interaction of maturity and too much water.

Further trials with leaf bud cuttings of apple are planned for the current season.

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<i>Azalea calendulacea</i> .....	6 to 8 ft.
<i>Azalea poukhanensis</i> .....	5 to 6-ft. spread
<i>Cercis canadensis</i> .....	8 to 14 ft.
<i>Cornus florida</i> .....	10 to 18 ft.
<i>Cotoneaster divaricata</i> .....	4 to 5 ft.
<i>Chamaecyparis filifera aurea</i> .....	5 to 7 ft.
<i>Chamaecyparis obtusa crippsi</i> .....	7 to 9 ft.
<i>Chamaecyparis obtusa nana</i> .....	3 to 5 ft.
<i>Fagus sylvatica</i> .....	2 to 5-in. caliper
<i>Franklinia alatamaha</i> .....	8 to 10 ft.
<i>Halesia tetraptera</i> .....	12 to 14 ft.
<i>Ilex crenata</i> .....	7 to 10 ft.
<i>Ilex opaca</i> .....	6 to 9 ft.
Magnolias, in variety .....	8 to 10 ft.
<i>Picea glauca conica</i> .....	5 ft.
<i>Picea glauca densata</i> .....	12 to 16 ft.
<i>Picea engelmanni</i> .....	8 to 12 ft.
<i>Picea omorika</i> .....	9 to 11 ft.
<i>Picea pungens</i> .....	12 to 16 ft.
Pin Oak .....	1 1/2 to 7-in. caliper
<i>Pinus flexilis</i> .....	5 to 7 ft.
<i>Pinus strobus fastigiata</i> .....	12 to 18 ft.
<i>Pinus strobus nana</i> .....	3 to 5-ft. spread
<i>Pinus strobus pendula</i> .....	12 to 14 ft.
<i>Pinus thunbergi</i> .....	8 to 14 ft.
<i>Prunus newporti</i> .....	5 to 9 ft.
Red Oak .....	2 to 5-in. caliper
<i>Rhododendron hybrids</i> .....	6 to 8 ft.
<i>Rhododendron maximum</i> , clumps, approximately 15 canes .....	5 to 8 ft.
<i>Stewartia pentagyna</i> .....	8 to 10 ft.
Sweet Gum .....	2 1/2 to 8-in. caliper
<i>Taxus browni</i> .....	5 to 6 ft.
<i>Taxus capitata</i> .....	5 to 8 ft.
<i>Taxus hickii</i> .....	5 to 8 ft.
<i>Taxus repandens</i> .....	3 to 5-ft. spread
<i>Tsuga canadensis</i> .....	5 to 11 ft.
<i>Tsuga caroliniana</i> .....	5 to 9 ft.
<i>Tsuga fremdi</i> .....	6 to 8 ft.
<i>Tsuga sargentii</i> .....	3 to 4-ft. spread
<i>Viburnum carlesii</i> .....	2 to 6 ft.

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## Practices in the Propagation of Dwarfing Rootstocks in Michigan

Increasing demand from both commercial fruit growers and nursery operators for semidwarf trees and dwarfing rootstocks has necessitated continued development of cultural methods for increasing the desirable rootstocks on a commercial scale. Dwarfing apple rootstocks of the East Malling series have been used extensively in field studies for about 10 years at the Michigan agricultural experiment station. Further, the certification program initiated in 1950 for the distribution of true-to-name dwarfing rootstocks to chosen nurseries has called for close attention and critical evaluation of all phases of the problem. Report of some of the methods and practices followed in the production of quality rootstocks at East Lansing was recently presented by R. F. Carlson and H. B. Tukey, of the department of horticulture, in the quarterly bulletin of the station.

Since 1945, the experimental planting at East Lansing has been increased from a small number of foundation stocks to approximately four acres. This planting now comprises the entire series of East Malling stocks, as well as various quince and plum stocks. The major portion of the planting is composed of EM I, II, VII, IX, XII, XIII and XVI, since they show considerable promise for either private or commercial tree plantings.

### Establishing Rootstocks

Original plants were set about 12 inches apart in rows nine feet apart, in order to facilitate the use of conventional tillage equipment and to provide adequate soil for mounding. The rootstock was allowed to grow for one year to become well established before mounding.

The soil, a Hillsdale sandy loam, was suitable for mounding and growing of the stock. About one inch of organic muck was applied annually in a 14-inch band over the row to hold the water which is so essential for root formation. In addition, some manure was spread between the rows with a manure spreader. The planting also received an annual over-all application of a complete fertilizer (10-10-10) at the rate of 350 to 400 pounds per acre. Supplementary irrigation was used in the planting for the past four years.

Routine sprays for insects and diseases were made several times dur-

ing the growing season. Aphis, leafhopper and apple scab caused the most trouble. Weeds were controlled with timely use of herbicides and some hoeing.

In March, one year after planting, the top growth of the rootstock was cut off at ground level to force several shoots below the cut. When these new shoots were about 12 inches tall and still tender and succulent, they were mounded to a height of six inches. Later, in July, they were mounded again so that the final mound was about 12 to 15 inches high in the center of the row.

A 1-bottom plow was used to push the soil around the shoots, forming the mound. One man usually followed with a hoe, pulling soil more closely around plants that were not reached with the plow. The soil was mounded high enough to allow for settling; however, 6 to 10 inches of the tips was left showing above the mound.

In November, before the soil froze, most of the mound was pulled down

with a plow. The soil next to the shoots was removed carefully, either with a shovel or hoe. Then all shoots were cut at the point of origin, making no cut higher than the original one in March. The exposed cut surfaces of the stools were covered with an inch of soil for protection during the winter. The shoots were kept separate according to number of stock and were taken to the nursery storage for processing and grading.

This procedure has been repeated annually, except in cases where the stock was low in vigor and was allowed to grow for one year, with no shoots removed.

Leafhoppers and aphids were controlled with timely sprays of parathion and nicotine sulphate. Ferimate was included for scab control.

During the 1953 and 1954 season, woolly aphis became troublesome on some of the stocks. EM I, IV, VII and IX seemed most susceptible to attack, whereas EM II, XII, XIII and XVI showed some resistance.

Materials such as chlordane and aldrin, applied to the soil at the base of the plants, have been suggested as control measures of woolly aphis. Annual applications over a few years may be necessary to control or eliminate this pest. Moderate woolly

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<i>Juniperus hetzli</i> , 18 to 24 ins. ....	\$3.50
<i>Juniperus excelsa stricta</i> , 12 to 15 ins. ....	1.60
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<i>Arborvitae pyramidalis</i> , 3 to 4 ft. ....	3.00
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LOS ANGELES 47, CALIF., 5852 S. Western Avenue—Phone Administer 3-7247  
SEATTLE 4, WASHINGTON, 516 Sixth Avenue South—Phone Eliot 0934

aphis injury on a well-rooted cutting is not serious, since it will outgrow the injury. Severely injured cuttings must be discarded.

An occasional plant has been found infected with crown gall; however, persistent roguing has kept the planting comparatively free of the disease.

### Discussion

A soil high in fertility and organic matter apparently is essential for satisfactory growth and production of well-rooted cuttings, states the report. In rows where fertilizers and organic matter were limited, the stools were noticeably lower in vigor over the 10-year period. In establishing a new stool bed planting for propagation purposes, it is important first to consider a soil that is easily tillable, high in organic matter and retentive of moisture. A heavy clay soil should be avoided.

Moisture in the soil mound is of prime importance. When the rows run east and west, the south side of the mound is exposed to direct sun for 10 to 12 hours daily, causing rapid drying out. Placing the rows in a south-north direction alleviates this situation to some extent.

Supplementary water in the form of overhead irrigation appears to be

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2-yr. S., 6 to 9 ins. ....	\$10.00	\$ 85.00
2-yr. S., 9 to 12 ins. ....	15.00	125.00
T., br., 9 to 12 ins. ....	17.50	150.00
T., br., 12 to 18 ins. ....	22.50	200.00

<b>Crataegus phaenopyrum</b> (cordata) (Washington Hawthorn)		
1-yr. S., 6 to 9 ins. ....	7.50	65.00
2-yr. root-pruned, 9 to 12 ins. ....	15.00	125.00
12 to 18 ins. ....	22.50	200.00

<b>Rhodotypos scandens</b> (kerrioides) (White Kerria Jethead)		
1-yr. S., 6 to 12 ins. ....	7.50	65.00
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<b>Cotoneaster divaricata</b>		
1-yr. S., 6 to 12 ins. ....	10.00	85.00

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essential under Michigan conditions. Often the months of August, September and October are deficient in rainfall. Timely applications of water during these months when growth and rooting occur not only increase vigor, but also produce better rooting of shoots.

In order to cover a sufficient area over the mounds per setting of irrigation pipes, a standpipe for each sprinkler was necessary. These standpipes were made from 1-inch piping, four feet high, and supported with a wooden stand. By placing the pipes between the rows, each setting covered about six rows. Enough water was applied to prevent drying out and to keep the soil moist.

The different clones of the East Malling series rooted satisfactorily with the procedure described. Malling I, VII and XIII produced the greatest number of well-rooted shoots, whereas Malling II, IX, XII and XVI were not quite so productive.

### DIRECT-MAIL ADVERTISING

[Continued from page 16]

ages and inserts with your statements?

I mention this because I have found that a great many nurserymen wonder if they should use a certain form of advertising because their competitors do, or because they come to a short course and hear somebody give it the big pitch?

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**Ornamental Trees**  
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Very odd appearing horticultural curiosity.  
Branches grow upright with a corkscrew twist.  
Compact growing large shrub or small tree.  
Ultimate height 12 to 15 ft.  
Small trees approximately 4 to 5 ft., \$2.50 each.  
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3. It has been my observation that Mr. and Mrs. Average Householder are becoming calloused to any but the genuinely exceptional piece of direct-by-mail. Everyone and his dog are sending some kind of offer by mail.

4. Finally, the mounting volume of direct-by-mail research that changes conclusions with the ease of a chameleon changing its color has left me confused — and I am willing to venture that it has left you as frustrated and confused as it has left me.

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Pyramidal Arborvitae		\$1.95	\$2.25	\$2.60	\$2.95	\$3.15
Hemlock		2.25	2.95	3.50	4.25	4.95
Juniperus burki		2.25	2.95	3.50	4.25	4.95
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Visit our nurseries when in Cincinnati

## ORNAMENTALS

### TREES SHRUBS

### EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

### BRYANT'S NURSERIES

Princeton, Illinois

## RED BARBERRY

*Berberis thunbergii atropurpurea*

	Per 10	Per 100
12 to 15 ins., heavy. ....	\$3.25	\$27.50
15 to 18 ins., heavy. ....	3.75	32.50
18 to 24 ins., heavy. ....	4.25	37.50

Write for quantity quotations.

KINGWOOD NURSERIES MENTOR, O.



### PEONIES • IRISES DAY LILIES • POPPIES

ALL YOUNG-GROWN STOCK  
PROMPT SERVICE

Send for Wholesale Prices.  
Early orders advised.

### WASSENBERG GARDENS

4 1/2 Miles East on U. S. 30  
VAN WERT, OHIO • "The Peony City"

mail areas. You have the fully justified use of color and, despite some contradictory tests, I still believe that color sells in your field. You have the advantage of fairly definite seasons. You have a far greater variety of products and a far greater opportunity for repeat business, which should always help direct-by-mail results. You, better than many others, can know the geographical areas and the types of consumers that provide your best prospects. You enjoy in great part the status of providing what has become a staple in our scheme of living. So when it comes to direct-by-mail advertising, you have a good start.

Presuming that you have engaged or are going to engage in direct-by-mail advertising, I should like to make these suggestions in view of conditions that seem to prevail today:

#### Recommended Procedures

1. Before trying to buy lists from somebody else, take an inventory of your own lists. There is no list better, in my belief, than of the people who already have traded with your firm.

2. With today's costs in mind, it is more important than ever to use clean lists. List brokers and such will charge you more for a clean list, but it is worth it. Under today's economy, it is always worth your while to provide the labor necessary to clean your own list before you make it responsible for a mailing's success.

#### Chose List Carefully

3. Beware of free lists that consist of people who have bought neckties or automobiles or have donated to charitable organizations. It has been well established that it is a poor bet to wager that a man who bought an automobile, even a station wagon, will buy plants. Subscribers to garden magazines, purchasers of new homes, etc., may be legitimately profitable investments. I might say, however, that garden club membership rolls have proved some of the poorest lists I have ever used except for occasional hard-to-get specialties or certain humble types of allied lines.

#### Use Suppliers' Folders

4. Make full use of the excellent inserts and folders provided by your suppliers. I have been amazed, time and again, at the unexplainable reluctance of retailers to use these pieces, preferring to let them gather dust on the counter rather than tuck them in with monthly statements or customers' packages or anything else that goes out of the store or yard.

5. The wiser advertisers have learn-

ed that direct mailings obtain multiplied results if they are backed by newspaper, radio or other types of tie-in advertising. Point-of-sale displays, sales staff badges, etc., also have increased pull, if your mailings are such as to get people into your store. This goes back to the necessity of planning before your mailing goes out.

#### Guarantees Needed

6. Today's mail-conditioned consumer requires some type of guarantee, and the more expensive the item, the more ironclad and the more convincing that guarantee must be.

7. Tell the truth, scrupulously. Do not promise more than you can perform. This, with your guarantee, should be your policy with every advertisement. It helps hurdle one of the greatest barriers the nursery trade faces in direct-by-mail.

8. Never send out any direct-by-mail pieces without some special reason that the customer can understand as being special. It must be a plausible reason that warrants your special contact with him.

#### "Natural" Copy

9. Stop trying to be clever and cute. Avoid adjectives you would never think of using person-to-person. The kind of copy that is selling now is the kind that reads like sincere, natural conversation. Talk to your reader just as you would talk to him in the store.

10. Today's market is moved by emotion. It is always important for the nurseryman to give basic information, but people are given the real urge to buy through what a product does, rather than what a product is. No matter how you advertise or what you advertise, what counts is the urge to buy. A customer buys when you can make him feel that he really wants or needs your product or service because it does what he wants or needs.

#### Simplify Ordering

11. Make it easy for the prospect to take action. Offer ready-to-check self-return cards. Facilitate a handy telephone call at a convenient time with a ready-in-hand number. The easier your consumer can take prompt action, the better your results will be. This, together with a plausible and logical reason for him to act, are two of the items I find most frequently missing from mail pieces. Too many advertisers are content with the simple admonition: "Act now!" By the time he is told that by newspaper, radio and

## PLANT MATERIAL

### Fall, 1955 — Spring, 1956

5000 Dogwood, white-flowering, multiple trunk, B&B	
4 to 5 ft. ....	\$3.75
5 to 6 ft. ....	5.50
6 to 7 ft. ....	6.50
7 to 8 ft. ....	7.50
5000 Dogwood, white-flowering, single trunk, B&B	
4 to 5 ft. ....	3.00
5 to 6 ft. ....	3.75
6 to 7 ft. ....	4.75
7 to 8 ft. ....	7.50
Larger sizes of Dogwood up to \$100.	
2000 Euonymus alatus	
bare-root, 3 ft. ....	1.50
B&B, 3 ft. ....	2.00
4000 Euonymus alatus compactus	
bare-root, 18 to 24 ins. ....	1.25
B&B, 18 to 24 ins. ....	1.50
1000 B&B, 24 to 30 ins. ....	1.85
5000 Euonymus carrierei erecta,	
4-yr., full, heavy,	
B&B, 15 to 18 ins. ....	.75
2000 Euonymus coloratus, Newport, upright form	
4-yr., 10 to 15 leads,	
B&B, 24 to 30 ins. ....	.75
3000 Euonymus vegetus, 3-yr.,	
br., 12 to 15 ins. ....	.50
potted, 12 to 15 ins. ....	.65
200 Washington Hawthorn, bushy, B&B, 5 to 6 ft. ....	5.50
1500 Hemlock, full, heavy, B&B	
3½ to 4 ft. ....	5.50
4 to 4½ ft. ....	6.50
Larger sizes up to 7 ft.	
1000 Juniper, Andorra, full, compact, B&B	
18 to 24 ins. ....	2.50
24 to 30 ins. ....	3.00
3 to 4 ft. ....	4.00
2000 Juniper, Pfitzer, full, compact, B&B	
15 to 18 ins. ....	1.35
18 to 24 ins. ....	1.85
300 Philadelphus virginialis, genuine double-flowering,	
B&B, 3½ to 4 ft. ....	1.50
500 Red Pine, sheared, full, B&B, 5 to 6 ft. ....	6.50
300 Red Pine, sheared, full, B&B, 6 to 7 ft. ....	7.50
300 Red Pine, sheared, full, B&B, 7 to 8 ft. ....	9.00
500 Scotch Pine, sheared, full, B&B, 3 to 4 ft. ....	3.50
1000 sheared, full, B&B, 4 to 5 ft. ....	5.50
500 sheared, full, B&B, 5 to 6 ft. ....	6.50
1000 White Pine, sheared, full, B&B, 2½ to 3 ft. ....	2.65
500 White Pine, sheared, full, B&B, 3 to 4 ft. ....	3.50
300 Syringa chinensis, B&B, 3½ to 4 ft. ....	1.50

## WADE & GATTON NURSERY

Long-distance phone: Butler 2-3191

BELLVILLE, O.

#### Write Now for Catalog and Price List.

only Steele's  
grow genuine  
**MASTODON®**  
Pansy Seed  
write for catalog!  
*Steele's*  
**PANSY GARDENS**  
2715 S. E. 39th Ave., Portland 2, Oregon, U.S.A.

Reg. U. S. Pat. Off.

#### FOR THE BEST IN CACTUS AND SUCCULENTS

WONDER COLLECTION: One hundred all different.

\$5.00 per 100, \$45.00 per 1000.

CANADIAN SPECIAL: More durable kinds, 20 varieties.

\$5.00 per 100, \$45.00 per 1000.

SUPER SELECTION: Largest from the shipping flats.

\$10.00 per 100, \$90.00 per 1000.

#### HUMMEL'S EXOTIC GARDENS

Rt. 1, Box 900 CARLSBAD, CALIF.

Be sure to  
list...

**red rich**  
EVERBEARING  
PLANT PAT. No. 993 <sup>®</sup>

We have the sales helps  
you need to sell and profit from  
this popular everbearing  
strawberry. Write today for  
complete information  
on Pack-Out, Bulk  
shipment and over-the-  
counter packages.  
A complete line  
of strawberry  
and perennial  
plants.

Write  
for  
Catalog...

**JUDSON**  
WHOLESALE NURSERIES  
BRISTOL, INDIANA

## EUONYMUS SELECTION

Fresh-dug; 24-hour shipment.

**Euonymus carrierei** upright. Dark  
green. A fine hedge or border  
plant. 12 to 15 ins. ....75c

**Euonymus vegetus.** Heavy plants.  
10 to 12 ins. ....70c

**Euonymus patens.** Well-furnished  
large plants. Many branches. 12  
to 15 ins. ....48c

**Euonymus alatus compactus.** Stur-  
dy little plants with heavy  
branches forming round heads.  
12 to 15 ins. ....80c

All above can be dug B&B or canned.  
Add 15c for either.

**ILGENFRITZ NURSERIES, INC.**  
MONROE, MICH. Phone: Cherry 1-6100

## ARBORVITAE

**Pyramidalis** in sizes  
From 2 to 4 ft.

**Siberians** in sizes  
From 1 1/2 to 2 1/2 ft.

Excellent stock in quantity.

Let us quote you on your needs.

**FILLMORE COUNTY NURSERY**  
CANTON, MINN.

mail 100 times a day, the customer  
is left completely cold.

12. I should like to urge that in  
this day and age you investigate care-  
fully the advantages sometimes pre-  
sented by good offset printing, par-  
ticularly if you propose to engage  
in color. At the same time, I should  
like to caution you that nothing can  
make a mailing piece unattractive so  
quickly as poor-grade offset. If you  
use printing of any other kind, for  
that matter, be willing to pay for  
good work.

### Assign Permanent Staff

13. By the same token, it is import-  
ant, I have found, to assign two per-  
manent people to your direct-by-mail  
program. One is some member of  
your staff who will take on the re-  
sponsibility for operations within  
your firm. You will obtain far greater  
continuity in your operation that way  
and you will likely find that person  
will develop an interest that will tend  
to make your mailings more profit-  
able. The second permanent person  
is your printer. Find a good printer,  
who not only turns out good work,  
but who takes a constructive interest  
in his customers; then stick to him.  
I can attribute many of the mistakes  
I have made in advertising to shop-  
ping around trying to get a printing  
bargain.

### Post Card Mailings

14. A great many successful mail-  
ings are being made with post cards.  
Some high-priced items have been  
sold successfully that way — again,  
in contradiction to the advertising  
saw that "anything's cheap when it's  
on a post card". I have had reports  
recently of items ranging to over \$100  
in price that have been sold by the  
post card route. You should investi-  
gate use of cards — they are not  
only less expensive in original cost,  
but are easier to handle and have  
the added advantage that the receiv-  
er does not have to be persuaded to  
open them to read what you have to  
say. This last advantage does not  
apply, of course, if you use the double  
return post card, which many firms  
are now using to make ordering  
quicker and easier.

15. Use your own knowledge of  
current local situations to time your  
mailings. Do not follow too implicit-  
ly the universal directions for timing  
your direct-by-mail. Tests in various  
localities sometimes prove the oppo-  
site of the national findings. Gener-  
ally, however, it seems best for your  
mailings to arrive early in the mid-  
dle of the week, on or close after  
your community's principal paydays,  
never during a community holiday,

## QUALITY EVERGREENS

Liners  
and  
B&B

**BROWN DEER**  
NURSERIES

P. O. Box 1747

MILWAUKEE, WIS.

## LINING-OUT and FINISHED STOCK

Ask for List

## THE COTTAGE GARDENS

Our 31st Year

Nick I. W. Kriek—Harold E. Hicks  
LANSING 15, MICH.

### WE OFFER ...

## Our General Line of SMALL FRUIT PLANTS

Let us quote on your  
requirements.

**L. J. RAMBO'S WHOLESALE NURSERIES**  
Bridgman, Michigan

### CHINESE CHESTNUT TREES

Seedlings only of the Peter Lui strain.  
A surplus of small sizes due to drought  
conditions. Your inquiries invited.

LEELAND FARMS Leesburg, Ga.

**Stock that is hardy.**  
WHOLESALE  
**SUMMIT NURSERIES**  
STILLWATER, MINN.



unless your mailing can give special reason for coming out at that particular time. Care should also be taken to time your mailings to give greatest advantage with either pre-tie-in or post-tie-in with your other advertising.

### Work for Repeat Business

16. Important nowadays—increasingly important—is your planning for repeat business from your mailings. Repeat business is what produces your greatest free profits and often lifts a mailing out of the red into the black.

17. Give your direct-by-mail advertising the personal touch in every way possible. One of the most successful mailings I ever saw simply had a hand-written notation in a lower corner of the printed letter: "Hope to see you. Bill."

This brings me to the conclusion I approached in my introduction. In planning as well as in copy the personal touch is required for direct-by-mail success. No matter what you read—no matter what anybody else tells you—your direct-by-mail advertising must be a product of what you know about your own business and the people to whom you wish to sell.

Advertising of any kind is a gamble. But the advertiser who makes certain that he has the right cards before he starts betting is playing good percentages. And probably at no other time in the history of the world can he stand to win so much as in today's marvelously developed approaches to the consumer. To win, however, there is one thing certain: If you expect to obtain winning cards, you have got to deal them to yourself.

### ROSE SCENT RESEARCH

Research on the genetics of rose fragrance will be sponsored by the American Rose Foundation, recently established for education and scientific research for the improvement of the standard of the rose for all American people. Funds for the project will come from donations for this particular purpose by Dr. James Alexander Gamble, Tall Timbers, Md., a trustee of the foundation. Dr. Gamble initiated the gift with \$1,000 last spring and pledged to duplicate the sum each year of his life. In addition his estate will make a "substantial donation" when he dies.

E. T. HARDING, 1952 Norfolk, Westchester, Ill., will enter into the nursery business next spring, growing evergreens.

## FALL LINERS

	Per 100	Per 1000	Per 10,000 lots
Colorado Blue Spruce, X, 9 to 12 ins.....	\$25.00	\$175.00	....
Colorado Blue Spruce, X, 6 to 9 ins.....	18.00	125.00	....
*Colorado Blue Spruce, 3-0, 5 to 10 ins.....	10.00	50.00	\$47.50
Colorado Blue Spruce, 3-0, 3 to 5 ins.....	6.00	30.00	28.00
Black Hills Spruce, X, 8 to 12 ins.....	22.50	150.00	....
Black Hills Spruce, X, 4 to 8 ins.....	15.00	90.00	....
*Black Hills Spruce, 3-0, 5 to 10 ins.....	7.50	35.00	33.00
Black Hills Spruce, 3-0, 3 to 5 ins.....	5.00	20.00	18.00
White Spruce, 3-0, 5 to 10 ins.....	7.50	35.00	....
White Spruce, 3-0, 3 to 5 ins.....	5.00	20.00	....
Norway Spruce, 3-0, 6 to 12 ins.....	8.00	40.00	....
Taxus Cuspidata Capitata, X, 8 to 12 ins. (from seed, individually sheared).....	65.00	....	....
Taxus Densiformis, X, 6 to 8 ins.....	50.00	....	....
Douglas Fir, X, 9 to 12 ins.....	25.00	125.00	....
Douglas Fir, X, 6 to 9 ins.....	15.00	75.00	....
Douglas Fir, 3-0, 3 to 8 ins.....	7.50	35.00	33.00
Douglas Fir, 2-0, 3 to 6 ins.....	6.00	28.00	25.00
Mugho Pine, 2-1, 3 to 5 ins.....	8.00	40.00	....
*Riga Scotch Pine, 2-0, 6 to 10 ins.....	10.00	36.00	35.00
*Riga Scotch Pine, 2-0, 4 to 8 ins.....	7.50	26.00	24.00
*Riga Scotch Pine, 2-0, 3 to 6 ins.....	5.00	22.00	21.00
Austrian Pine, 2-1, 4 to 8 ins.....	10.00	50.00	45.00
*Austrian Pine, 2-0, 3 to 6 ins.....	5.00	22.50	21.00
White Birch, XX, 3 to 4 ft.....	75.00	....	....

## MATTHEWS NURSERY

HARBOR SPRINGS, MICH.

Telephones 123, 48 or 732

### COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.  
ONARGA, ILL.



### EVERGREENS

Growers of Quality Evergreens  
Lining-out Stock a Specialty  
Write for Trade List

EVERGREEN NURSERY CO.  
Established 1884 • STURGEON BAY, WIS.

ARMINTROUT'S EVERGREEN NURSERY  
ALLEGAN, MICH.

Seedlings—Transplants  
Finished Stock  
Send for price list.

### PFITZERS

We have an extra-nice block of  
thrifty plants. We can supply in  
either truck or car load lots at the  
following prices:

18 to 24 ins.....\$3.00 each  
2 to 2½ ft..... 3.50 each

LITTLEFORD NURSERIES  
VINCENNES, IND.

### SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the whole-  
sale trade only.

KRIEGER'S WHOLESALE NURSERY  
BRIDGMAN, MICH.

# PLANT NOTES HERE AND THERE

By C. W. Wood

## Propagating Poppies

A beginner in the trade asks for a schedule for the propagation of Oriental poppies on the scale needed by a neighborhood grower. I am glad that he asked for small-scale production, because I never operated at the pace of a poppy specialist, though we did have a schedule that we liked well for our limited needs.

The most satisfactory way to get Oriental poppies into an amateur's hands—most satisfactory to both buyer and seller—is in the form of large plants in a dormant state. That period falls in midsummer, when gardeners are in no mood for planting, and, as a consequence, far fewer sales are made than should be the case. It is necessary, then, if one is to make all possible sales, to have young plants in pots when one's show plants are in bloom.

The plant is so easily propagated from root cuttings that one has a choice of ways to handle stock. Everything considered, we found the following schedule best suited to our facilities and to a quick turnover at a reasonable profit: The plant to be propagated is dug while dormant in midsummer, and the roots (the large fleshy ones, if stock is plentiful, or the smaller ones are included if stock is scarce) are cut into short lengths (from a half inch to two inches, depending on the number of plants needed). These are planted upright or slightly slanting in rows in a coldframe, where they can be protected with a mulch and glass when cold weather arrives, enabling one to get at the plants to pot them up in early spring.

If the top cut is made straight across the top and the bottom one is made slanting, there will be no question about getting the top end up when the cuttings are planted. The top of the cutting is covered with about three quarters of an inch of soil when the stock is planted in an outdoor frame. Plants are taken up in early spring and planted in 3-inch pots, preferably in what propagators know as rose pots, which are deeper than ordinary pots. The pots are then returned to a glass-covered frame until selling time, and all left over after the selling season are lined out in the field for stock plants or for selling in a dormant state. When making the cuttings, work with only

one variety at a time and be sure the bench is perfectly clean before going on to another kind. Use indestructible labels and back up that practice with an office record of the plantings.

## Hardy Aster Jane McMullen

Some exciting hardy asters have come out of England during the past decade, and if one is to judge from what is being said about them, there are many more to come. All of these new, large-flowered kinds that I have seen have been outstanding in many ways, especially in size of flower and clarity of color. Many had double blooms, if that is desired. The pinkish-lavender Peace, the clear soft blue Plenty and the deep violet-blue, fully double Eventide are examples of these superior asters. Now I have at least two glowing reports on the

new Jane McMullen, whose double, pink flowers are said to be even larger than those of Plenty (larger than a silver dollar, according to one report). That should make it an exciting aster!

## Helichrysum Frigidum

A Georgia reader, interested in the production of dried material on a commercial basis, wonders if *Helichrysum frigidum*, which he read about in an amateur publication, could be used in his schedule. I have written direct, giving him a list of the perennial *helichrysms* that I think would be useful in his work and told him that a report on *H. frigidum* would be made in this column.

This plant comes from Corsica and is not hardy enough to stand our northern Michigan winters. It

## A WIDE VARIETY OF FINISHED EVERGREENS AND SHRUBS CONTAINER-GROWN AND LINERS



Send for Complete List



**EAGLE CREEK NURSERY CO., INC.**  
NEW AUGUSTA, IND.

### "CRIMSON PYGMY" DWARF RED BARBERRY

Place your order now for fall, 1955, or spring, 1956.

	10 rate	100 rate	1000 rate
L.O. size from 2 1/4-in. pots.....	\$0.35 ea.	\$0.25 ea.	\$0.22 1/2 ea.
2-yr. field plants .....	.75 ea.	.60 ea.	.50 ea.

**THE COTTAGE GARDENS**

**LANSING 17, MICH.**

### 15,000 BUXUS SEMPERVIRENS

4 to 5 ins. ....	Per 100
6 to 8 ins. ....	\$ 8.00
	10.00

These are beautiful liners.

**LITTLE MOUNTAIN VIEW NURSERIES**  
MENTOR, O.

is a little too difficult to manage, I suspect from experience here, for the casual gardener anywhere. After I grew it in pots for two or three years, it was my opinion that its pretty ("curiously lovely," one visitor called them), glistening white, everlasting flowers, on 2-inch stems over mats of gray foliage would be worth the care needed to make it thrive. In the open, where hardy, it is said to require a gritty soil, full sunshine and water from below. That is what we gave the plant in pots. Our correspondent will note from its 2-inch stature that it would scarcely be fitted to the production of strawflowers.

### *Saxifraga Cherleroides*

An Oregon reader who spent his 1955 vacation in Alaska brought back some plants of what he was told there was *Saxifraga cherleroides*, and from his remarks I take that to be the correct name. He asks for a note on the subject. The plant is probably no more than a form of the more widely distributed *S. bronchialis*, growing naturally in northeastern Asia and Alaska, I believe. There is much confusion in its naming in lists, where it is usually called *S. stelleriana* or *S. stellariana*. It is a small thing, its mossy foliage (not in the sense that the dactyloides section forms are called mossies) hugging the ground. It is the most densely cespitose of the aspera section that I have seen, growing in the tightest possible tufts. The foliage alone is sufficient reward for its culture, and especially is that true from fall till spring, when it takes on lovely bronze shades. Although the flower color is quite inconstant in this group of saxifrages, the color most often seen in *S. cherleroides* is white with pinkish spots, instead of the orange-spotted creamy-white color of the other.

This saxifrage is not easy to grow in our midwest climate, though it probably would be more amenable in western Oregon. It did best here in an acid soil on a northern exposure where the plants were shielded from the hot sun. It needs more moisture than our climate provides; so some provision for watering must be made. It would no doubt do well in a wet moraine, as do most of the small saxifrages, and in the nursery they may be grown in a lath-shaded frame, where moisture conditions are under control.

### *Iris Pallida Delicata*

An Ohio reader writes in part as follows: "Several years ago you recommended a tall, bearded iris with variegated leaves as a neighborhood item. I had been selling a few of the

## EVERGREENS FOR THE MIDWEST FALL, 1955 — SPRING, 1956

JUNIPERS		BROAD-LEAVED EVERGREENS	
<b>PFITZER JUNIPER.</b> Each		<b>BERBERIS JULIANAE</b>	
extra compact and full.		12 to 15 ins.	1.50
15 to 18 ins.	\$2.25	15 to 18 ins.	2.00
18 to 24 ins.	2.75	18 to 24 ins.	3.00
24 to 30 ins.	3.50	<b>ILEX ROTUNDIFOLIA</b>	
30 to 36 ins.	4.25	15 to 18 ins.	2.00
Sheared-regular, 36 to 42 ins.	5.00	18 to 24 ins.	3.00
Sheared and extra heavy.		<b>ILEX EAST PALATKA,</b>	
3 1/2 to 4 ft.	6.00	heavily branched,	
<b>BLUE PFITZER JUNIPER,</b>		3 ft.	2.50
true blue and heavy.		3 1/2 to 4 ft.	3.50
24 to 30 ins.	3.75	4 to 5 ft.	4.50
30 to 36 ins.	4.50	<b>MAGNOLIA GRANDIFLORA,</b>	
<b>COMPACT PFITZER JUNIPER,</b>		southern evergreen.	
a good compact type.		2 1/2 to 3 ft.	2.50
15 to 18 ins.	2.50	3 to 3 1/2 ft.	3.50
18 to 24 ins.	3.00	<b>EUONYMUS FORTUNEI ERECTI</b>	
24 to 30 ins.	3.75	Gal. cans	1.25
30 to 36 ins.	4.50	<b>EUONYMUS RADICANS VEGETUS</b>	
<b>JUNIPERUS GLAUCA HETZL,</b>		Gal. cans	1.25
heavily sheared to pin-cushion		<b>EUONYMUS COLOBATUS</b>	
type form.		Gal. cans	1.25
18 to 24 ins.	3.00	<b>EUONYMUS RADICANS</b>	
24 to 30 ins.	3.75	<b>COLORATUS</b>	
<b>JUNIPERUS CANAERTI,</b>		Gal. cans	1.25
grafts, broad base and full.		<b>EUONYMUS PATENS</b>	
3 ft.	3.00	<b>BIG-LEAVED</b>	
3 to 4 ft.	4.00	3 ft.	2.00
4 to 5 ft.	5.00	And other miscellaneous canned stock.	
<b>JUNIPERUS GLAUCA,</b>		<b>MISCELLANEOUS</b>	
grafts, high color and full.		<b>MAGNOLIA GLAUCA</b>	
3 to 4 ft.	4.00	(Sweet Bay Magnolia)	
4 to 5 ft.	5.00	2 1/2 to 3 ft.	2.50
<b>DUNDEE JUNIPER, grafts</b>		3 to 3 1/2 ft.	3.50
3 ft.	3.00	<b>MAGNOLIA SOULANGEANA</b>	
3 to 4 ft.	4.00	2 1/2 to 3 ft.	3.00
<b>JUNIPERUS KETELEERI, grafts</b>		<b>MAGNOLIA SOULANGEANA</b>	
3 to 4 ft.	4.00	<b>NIGRA</b>	
4 to 5 ft.	5.00	3 to 4 ft.	4.00
		4 to 5 ft.	5.00
		<b>BALD CYPRESS.</b> We can supply	
		large ones up to 6-in. cal.	
		8 ft. plus	7.50
		<b>MEMOSA, branched</b>	
		Average 2-in. cal., 5 to 6 ft.	2.50
		<b>ILEX DECIDUA.</b> For selected	
		berried plants, add \$2.00 each.	
		4 to 5 ft.	3.00
		5 to 6 ft.	4.00
		6 to 8 ft.	5.00
		<b>WHITE DOGWOOD</b>	
		3 ft.	2.00
		3 to 4 ft.	2.50
		<b>PINK DOGWOOD</b>	
		3 ft.	3.00
		<b>FLOWERING PEACH,</b> double	
		white, double red, weeping, B&B.	
		1 1/2-in. cal.	3.00
		<b>EUONYMUS EUROPAEUS</b>	
		3 to 4 ft.	1.50

NOTE: 5% discount allowed on orders paid before or at delivery; otherwise 2% 10 days. Net 30 days. On orders to be held for spring delivery, a payment of 1/3 of order may be requested.

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15 to 18 ins.	100.00	950.00

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4-yr. Transplants	Per 100	Per 1000
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8 to 10 ins.	\$18.00	\$150.00
6 to 8 ins.	15.00	120.00
4 to 6 ins.	12.00	100.00
<b>Black Hills Spruce</b>		
10 to 12 ins.	20.00	
8 to 10 ins.	18.00	150.00
6 to 8 ins.	15.00	120.00
4 to 6 ins.	12.00	100.00
<b>Norway Spruce</b>		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	90.00
<b>Mugho Pine (Dwarf Tyrolean), sheared</b>		
4 to 6 ins.	18.00	150.00
<b>Balsam Fir</b>		
10 to 12 ins.	20.00	150.00
8 to 10 ins.	15.00	130.00
<b>3-yr. Seedlings</b>		
<b>Colorado Blue Spruce</b>		
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00
<b>Black Hills Spruce</b>		
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.50	30.00
<b>Mugho Pine (Dwarf Tyrolean), sheared</b>		
4 ins.	4.00	35.00
<b>Riga Scotch Pine</b>		
8 to 10 ins.	35.00	30.00
6 to 8 ins.	30.00	25.00
<b>Austrian Pine</b>		
8 to 10 ins.	3.50	30.00
<b>Ponderosa Pine</b>		
10 to 12 ins.	4.00	35.00
8 to 10 ins.	3.50	30.00
<b>Norway Spruce</b>		
10 to 12 ins.	5.00	45.00
8 to 10 ins.	3.50	30.00
<b>American Arborvitae</b>		
4 to 8 ins.	3.50	30.00
Write for Price on Colorado Blue Spruce, 2-yr., 4 to 6 ins., Lots 25 to 50,000 or more.		
Strict Grade. Best of Packing.		

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modern named varieties for years, never in large numbers, but in quantities to make it a fairly profitable venture. The variegated one was added on an experimental basis and has proved the best seller of them all. What I like about it is that it is a quantity seller, customers seldom buying less than five plants and often purchasing dozen lots." I quote the foregoing as an introduction to a few remarks on iris with variegated foliage.

One of the principal objections to garden iris as landscape plants when they are the main feature of a planting is their dullness when out of flower. I recall visiting a garden years ago where the tall bearded iris was featured in several ways, always mainly because the owners were enamored by the beautiful modern varieties. They realized, however, that the plant had its limitations when used alone; so they had introduced the variegated-leaved one in generous groups in several parts of the planting. Subsequent investigation showed that the kind used was what is generally known as *Iris pallida* delicata. Its leaves, cream, pale yellow and gray-green, with the accompanying intermediate shades where these colors overlap each other, make a striking contrast when seen in groups of ordinary iris foliage. At least two other kinds with variegated foliage are mentioned in the literature, but they do not appear in any American lists so far as I know.

### Yellow Star Grass

The recent offer of a reader in the southwest to send me some plants of *Hypoxis hirsuta*, the yellow star grass, even though I could not accept because of lack of time to take care of them, brought up pleasant memories of a large planting we had of it years ago in the shade of an old apple tree and the large quantity we used to sell to our landscape patrons when we ran the nursery. And it prompts a few words on the subject at this time.

It is easy to understand why so modest a plant would not impress an amateur gardener who was looking for splashes of color, as most are. And a flower so small could not be expected to make much of a showing if planted singly or in threes. On the other hand, it can be used with splendid effects as a deciduous ground cover in lightly shaded places, where it will produce a succession of small, yellow stars from May until August, if not allowed to dry out. When so used, it should be planted liberally, of course. In our

## FALL, 1955

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Arborvitae, Dark Green American  
Berberis Mentorensis  
Birch, Weeping Cut-leaved  
Cornus Florida  
Cotoneaster Divaricata  
Cotoneaster Apiculata  
Crab Apple, Flowering  
Euonymus Alatus Compactus  
Euonymus Patens  
Euonymus Vegetus  
Juniperus Canaerti  
Juniperus Columnaris  
Juniperus Glauca  
Juniperus Keteleeri  
Juniperus Pfitzeriana  
Maple, Silver  
Privet, Amur River North  
Prunus Newport  
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experience it was a poor seller locally, but a good item for the landscape trade, experienced landscape architects buying it in quantities of hundreds and sometimes thousands for special jobs. If you cater to the latter trade, it might pay you to investigate the plant.

Use of *H. hirsuta* is not restricted to partial shade, though, as the preceding paragraph appears to imply. It also did well here in full sun, if it did not suffer for want of moisture, but the flowering period was then shortened, as I remember it now. It seemed not particular as to soil, if the drainage was good. It is easily propagated by division of its corm-like roots (it is a member of the amaryllis family or was the last time I looked in the floras, growing naturally from Maine to Florida, Kansas and Texas) and no doubt from seeds when the latter are available.

#### Phlox Rembrandt

I was favorably impressed by a new phlox, Rembrandt, which I saw in a private garden the past summer. Without the other good white-flowered kinds to compare it with, I should not care to say it is the best of the white varieties, but its large, pure white flowers in enormous heads would make it a standout in any company. The specimens seen were grown in a cloth house, where all conditions were under control, and the plants had nice green foliage right down to the ground—not much like the phlox foliage seen in most midwest gardens during the trying summer of 1955.

#### Silver Thistles

A reader recently took me to task for a statement that I made in this column about 12 years ago about the life span of the silver thistles. By referring back to that note, I find that I had this to say about the group: "All three kinds that I know—*Carlina acanthifolia* (they might all receive that name, for they all can boast of acanthus-like leaves), *C. acaulis* and *C. cynara*—are quite stemless, as they have grown here, though the books speak of *acaulis* as having stems up to six inches high. As *acanthifolia* and *cynara* are both monocarpic and hard to find in addition, space will not be taken for them, but the other, *C. acaulis*, because of its long life, ease of culture in any sunny, well-drained situation, lovely leaves and immense (to six inches or more across) silvered heads, quite everlasting in their beauty, is a plant of much merit." I thank the reader for his thoughtful letter and reply as follows:

If I were writing the note now in

## SURPLUS SHRUBS IN LARGE QUANTITIES

Pink Almond  
*Spiraea Anthony  
Waterer*  
*Spiraea froebeli*  
*Symphoricarpos  
chenaulti*  
*Symphoricarpos  
racemosus*

*Symphoricarpos  
vulgaris*  
Snowball  
*Hydrangea A. G.*  
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18 to 24 ins. ....	\$4.00
24 to 30 ins. ....	5.00
<i>Juniperus Andorra</i>	
15 to 18 ins. ....	1.50
<i>Juniperus hetzi</i>	
12 to 15 ins. ....	1.35
15 to 18 ins. ....	1.50
18 to 24 ins. ....	2.25
24 to 30 ins. ....	2.50
<i>Juniperus pfitzeriana</i>	
12 to 15 ins. ....	1.35
15 to 18 ins. ....	1.50
18 to 24 ins. ....	2.25
3 to 4 ft. ....	5.00
<i>Juniperus burki</i>	
2 to 2 1/2 ft. ....	2.25
2 1/2 to 3 ft. ....	2.75
<i>Pyramid Arborvitae</i>	
18 to 24 ins. ....	.95
4 ft. ....	2.90
5 ft. ....	3.00
<i>Elegantissima Arborvitae</i>	
18 to 24 ins. ....	1.50
2 1/2 to 3 ft. ....	2.00
3 to 4 ft. ....	3.00
<i>Woodward Globe Arborvitae</i>	
12 ins. ....	1.00
18 to 24 ins. ....	1.50

#### Golden Biot

12 to 15 ins. ....	\$1.25
15 to 18 ins. ....	1.50
18 to 21 ins. ....	1.75

#### SHRUBS

<i>Rhamnus frangula</i>	
4 ft. ....	.50
<i>Mentorensis Barberry</i>	
18 to 21 ins. ....	.45
<i>Euonymus coloratus</i>	
2-yr. ....	.35

#### SHADE TREES

<i>Silver Maple</i>	
6 to 8 ft. ....	2.00
8 to 10 ft. ....	2.50
10 to 12 ft. ....	3.00
<i>Norway Maple</i>	
10 to 12 ft., branched. ....	3.00
<i>Crimson King Maple</i>	
8 ft., branched. ....	4.75
<i>Chinese Elm</i>	
2 1/2-in. caliper ....	10.00
3 to 3 1/2-in. caliper ....	15.00
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5 to 6 ft., extra-heavy, B&B. ....	4.00

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the light of further trials, the only part that I should wish to change would be to insert the word "quite" before monocarpic and include *acaulis* in the same category. I have not been able to find *C. cynara* for years and *C. vulgaris* not at all; so I cannot report on them. The other two mentioned generally behaved as monocarps, though both on at least two occasions survived one year of seed production.

#### Viola Fletti

I guess we shall have to admit that American gardeners are not ready to make friends with their native flora unless it is something that is so showy that it can be seen from the next block or something that can be used in a flower arrangement. Last week when there came a request from a reader for a source of supply for *Viola fletti*, I thought that would be easy. Imagine my surprise, then, when a long search revealed just one source. Twenty years ago, as I distinctly remember, it was listed by five or more mail-order nurserymen. The only explanation for its absence from present-day lists is a lack of demand. I venture the opinion, though, that my correspondent, himself a mail-order dealer, will find a demand for the plant for a few years at least.

The plant, a northwestern native, has many characteristics to recommend it to garden makers, including the beautiful shades of bronze which the leaves take on when planted in exposed positions and a long flowering period in spring and again in autumn. The color is quite unique in violets, being a deep rose, with a suggestion of lavender. The plant was quite easy and permanent in our trials, doing well in sun (with watering) or part shade, and was especially attractive in the poor soil of the scree.

NORRIS C. RAZELAE, R. R. 1, Neuse, N. C., is planning to start a nursery devoted to the growing of evergreens and flowering shrubs.

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This stock must be seen to be appreciated; it is **GROWN RIGHT** and will be **DUG RIGHT**

	1 1/2 ft.	2 ft.	2 1/2 ft.	3 ft.	3 1/2 ft.	4 ft.	4 1/2 ft.	5 ft.	6 ft.
Canadian Hemlock, Sheared	\$2.50	\$3.00	\$3.50	\$4.00	\$5.00	\$6.00	\$6.50	\$7.50	\$8.00
Juniperus pfitzeriana, Trimmed	2.25	2.50	3.00	3.50	...	...	...	...	...
Juniperus pfitzeriana Hill's Gold, Trimmed	2.25	2.50	3.00	3.50	...	...	...	...	...
Juniperus pfitzeriana H.P. Compact, Trimmed	2.50	2.75	3.25	3.75	...	...	...	...	...
Juniperus hetzi glauca, Sheared	2.00	2.50	3.00	...	...	...	...	...	...
Juniperus hibernica fastigiata	...	...	...	1.50	2.50	3.50	4.00	5.00	...
Juniperus vonehron, Trimmed	...	...	2.50	3.50	...	...	...	...	...
Taxus andersoni	5.00	6.00	7.50	...	...	...	...	...	...
Taxus wardi, Dwarf	5.00	6.00	7.50	...	...	...	...	...	...
Taxus hicksi	5.00	6.00	...	...	...	...	...	...	...
Taxus hatfieldi	6.00	7.50	...	...	...	...	...	...	...
Taxus browni	5.00	6.00	7.50	...	...	...	...	...	...
Taxus media, wymani, cuspidata	3.75	5.00	...	...	...	...	...	...	...
Woodward Arborvitae	2.00	2.50	...	...	...	...	...	...	...
Pyramidal Arborvitae	2.00	2.50	3.00	3.50	4.00	5.00	...	...	...
American Arborvitae	1.50	2.00	...	...	...	...	...	...	...
Barberry, Red or Green	.50	...	...	...	...	...	...	...	...
Pin Oak, field, 3-yr. transplants	...	...	...	...	.75	.80	.90	1.00	1.25
Red Dogwood (Cornus florida rubra)	...	2.50	3.00	...	...	...	...	...	...
Viburnum rhytidophyllum	...	2.50	...	...	...	...	...	...	...

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## LOUISIANA CONVENTION

[Concluded from page 9]

by stating that the customer does not buy any particular plant, but rather he wishes to satisfy a desire for beauty, social prestige or some other factor.

## Quality and Profits

A panel of growers and retailers discussed "Quality in Relation to Profits." Participating in the panel were Steve Verhalen, Verhalen's Nursery, Scottsville, Tex.; Sidney Meadows, Flowerwood Nursery, Mobile, Ala.; Grady Brown, Dallas, Tex.; James Fitzpatrick, Texas Nurseries, Sherman, Tex.; Elwood Stephens, Tom Dodd Nurseries, Mobile, Ala.; Clyde Gorum, Lambert Landscape Co., Shreveport, La., and Sterling Cornelius, Cornelius Nurseries, Houston, Tex.

After individual discussion, the panel members concurred that (a) more high-quality merchandise is sold (regardless of grade) at both wholesale and retail levels, (b) the added expense of producing quality plants is amply justified in the price received, (c) the retail customer chooses the better-quality plant, (d) the average customer of moderate income is the most quality-conscious customer and (e) volume of sales at all levels would increase with the production of quality plants in all grades.

The annual president's banquet and dance was held at 8 o'clock Saturday evening.

JOHN WOLANYK, R. F. D. 1, Niagara Falls, N. Y., has recently started a retail nursery which he will call Pleasant Meadow Nursery.

OPENED at Monterey Park, Calif., is the Garfield Nursery, at 428 South Garfield avenue. The owners are Mr. and Mrs. George Sloan, who formerly were in the nursery business at Richeyville, Pa.

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12 to 14 ft., 2 to 2½-in. cal., T., well-branched	\$25.00	\$225.00	.....
10 to 12 ft., 1¾ to 2-in. cal., T., well-branched	20.00	175.00	.....
10 to 12 ft., 1½ to 1¾-in. cal., T., well-branched	17.50	150.00	\$1400.00
8 to 10 ft., 1¼ to 1½-in. cal., T., well-branched	12.50	100.00	900.00
7 to 9 ft., 1 to 1¼-in. cal., T., well-branched	9.50	80.00	700.00
6 to 8 ft., ¾ to 1-in. cal., T., well-branched	8.50	70.00	600.00
5 to 6 ft., ½ to ¾-in. cal., T., well-branched	6.00	50.00	400.00
<b>CATALPA SPECIOSA</b> (Western Catalpa)			
8 to 10 ft., T., well-branched	17.50	150.00	.....
6 to 8 ft., T., well-branched	15.00	125.00	.....
5 to 6 ft., T., well-branched	12.50	100.00	.....
4 to 5 ft., T., well-branched	10.00	75.00	.....
<b>CERCIS CANADENSIS</b> (Redbud)			
6 to 8 ft., T., well-branched	12.50	100.00	.....
5 to 6 ft., T., well-branched	8.50	75.00	.....
4 to 5 ft., T., well-branched	6.00	50.00	.....
3 to 4 ft., T., well-branched	5.00	40.00	.....
<b>PLATANUS OCCIDENTALIS</b> (American Sycamore)			
8 to 10 ft., T., well-branched	17.50	150.00	.....
6 to 8 ft., T., well-branched	12.50	100.00	.....
5 to 6 ft., T., well-branched	10.00	75.00	.....
4 to 5 ft., T., well-branched	7.50	60.00	.....

Wholesale Price List now ready for mailing. Write for copy if not already on our mailing list.

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Phone: 2616

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We have in surplus about 300,000 *Pyrus Calleryana* in fine, well-rooted seedlings that will be 1 yr. old in the spring. Grown in sterilized soil they will caliper a good per cent in grafting size. We have our own seed-bearing trees of selected stock. Would advise early booking.

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Nursery located 63 miles east of Amarillo, Tex., and 7 miles northwest of Alanreed, Tex., on Farm Road 291; 28 miles southeast of Pampa, Tex., on 291. Amarillo Div. 1616 Western.

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### THE KENTUCKY JUNIPER GRAFTERS ASSN.

invites your inquiries for Juniper grafts and other liners. Upon request, we will gladly mail you a list of propagators in Kentucky, after which you may contact your favorite grower. Address inquiries to: T. C. CRUME NURSERY & LANDSCAPING CO., Hwy. 42, FLORENCE, KY.

## Research At Alabama

The Alabama Polytechnic Institute is conducting a varied program of research at its ornamental horticulture field station at Spring Hill. These projects proved of much interest to the nurserymen who attended the field day sponsored by the South Alabama Nurserymen's Association at Spring Hill last August and made a tour of the station under the guidance of Dr. Raymond L. Self, plant pathologist in charge. The following summary of the research already completed by the station or now in progress supplements the report of the field day published in the September 15 issue.

### Leaf Spot Diseases of Ornamentals

During the past three years numerous leaf spot diseases of ornamentals were received for identification. Many, but not all, of these diseases were identified. All leaf spot diseases are most serious in wet weather. Control of these diseases should begin when one buys the seeds or young plants. Seeds should be treated and planted in sterilized soil, and diseased plants or leaves should be removed as observed.

Numerous seed and bulb treatment materials are available, and only a few of them have been tested at Spring Hill. Seed treatment studies have been run on loquat, *Magnolia grandiflora* and caladium bulbs. Semesan has been one of the best over-all materials used. It can be used as a soak—30 minutes on seeds and one to two hours on bulbs—at the rate of one tablespoonful per gallon of water. Seeds or bulbs should then be washed in running water for 30 minutes, air dried until the surface is dry and then dusted with Arasan. Experiments to date have shown that Arasan, Captan. (Orthocide), Spergon and some other seed treatments have also been effective. However, they will usually eliminate only the fungus present on the outside of the seeds. Seed treatment materials containing lindane prevented loquat seeds from germinating.

Some of the more common fungus leaf spot diseases on ornamentals in the station area and brief descriptions of them follow:

#### LOQUAT

Entomosporium leaf spot — Small,

brown, circular spots; leaf drop is heavy in the fall.

Anthraxnose—Rapid rot usually covering entire leaf.

Bacterial blight—Stem tips are killed in spring; brownish gum oozes from stem.

#### MAGNOLIA GRANDIFLORA

Phyllosticta leaf spot — Small circular spots with flyspeck fruiting bodies.

Sunscaud—Burning of young leaves on hot, dry days.

#### MAGNOLIA SOULANGEANA

Bacterial — Spots are usually angular with yellow margin and shiny bacterial gum underneath. The anthracnose fungus is often associated with it.

Anthraxnose — Rapid rot, angular on some leaves. This fungus also gets into lesions started by bacteria and other fungi.

Powdery mildew—Powdery spore masses on wrinkled leaves.

#### PIERIS JAPONICA

Entomosporium leaf spot — See "Liquats."

#### AUCUBA

Phomopsis blight — Black rot which kills both the leaves and stem.

#### ARBORVITAE AND JUNIPERS

Cercospora leaf spot—Firing of lower limbs of plants.

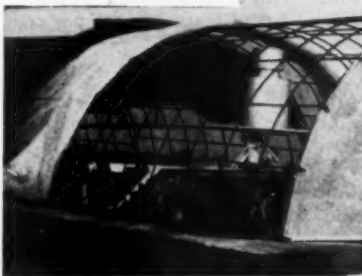
The following materials at four pounds to 100 gallons of water (twice the manufacturer's recommendation) have been safe on all ornamentals tested: Orthocide, manzate, Parzate, Z-78 and Phygon. Copper A and tribasic copper sulphate have not noticeably injured plants at eight pounds to 100 gallons of water.

The most effective fungicides appear to be maneb (manzate and M-22), two pounds, and captan (Orthocide 406), four pounds, to 100 gallons of water.

For small areas, dusts may be more practical. A combination of 7 per cent maneb or captan and 4 per cent malathion is suggested. With proper application to insure coverage of both leaf surfaces, these mixtures will control a wide variety of both leaf

## LINERS

FROM OPEN BEDS  
AND FIELD ROWS



All of our cuttings are rooted in soil. As soon as they root, they usually begin to make some new growth—often a great deal—and always begin to develop a hard, secondary root system. After a few months many are about equal to light bed-grown liners, although we continue to call them rooted cuttings.

So that you can judge what we are offering, we give the month in which the cuttings were rooted. That is, "RC June 55" would mean cuttings rooted during June, 1955, which have been growing in the soil in which they were rooted ever since. The amount of growth and the development of the root system will be in proportion to the time that has elapsed since they were rooted. If no date is given, you should expect to receive rooted cuttings in about the same stage you would from a common greenhouse operation.

All plants go through our normally severe winters outside, so you can depend on receiving thoroughly hardened and dormant liners. However, spring does come early here. Some varieties will show activity by March 10 and nearly all begin some growth by the first of April, so please order early.

Our descriptions conform to standard practice for liners, but please do remember that most of the plants we offer are for lining-out purposes and will not always necessarily meet A. A. N. grades for finished stock.

BG—bed-grown RC—rooted cutting  
T—field-grown Mo.—date rooted  
F—transplanted S—seedling

**Abelia Edward Goucher**—2-yr., T, F, 12 to 18 ins., spread measure, 30c.

**Abelia grandiflora**—2-yr., T, F, cutback, well-branched, clean and extra-nice, 12 to 18 ins., 20c; 18 to 24 ins., 30c.

**Berberis julianae**—RC, Aug. 55, 8c; 2-yr., T, F, 12 to 15 ins., 30c; 15 to 18 ins., 45c; 18 to 24 ins., 60c.

**Berberis julianae nana**—compact type, often called "BPI." RC, Aug. 55, 10c; BG, T, 4 to 6 ins., 15c; 6 to 9 ins., 20c; 2-yr., T, F, 9 to 12 ins., 35c.

**Berberis mentorensis**—RC, July 55, 7c; BG, T, 6 to 9 ins., 10c; 9 to 12 ins., 13c; 2-yr., T, F, 12 to 15 ins., 17c; 15 to 18 ins., 22½c; 18 to 24 ins., 30c.

**Berberis sargentiana**—RC, July 55, 8c; 2-yr., T, F, 12 to 18 ins., 25c; 18 to 24 ins., 40c.

**Buxus sempervirens arborescens**—2-yr., T, F, 6 to 9 ins., 20c.

**CHAENOMELES** (Flowering Quince) — own root from softwood cuttings, no suckering from these:

**Chaenomeles lagenaria alba**—pure white, RC, June 55, 10c; BG, 6 to 12 ins., 15c; 12 to 18 ins., 20c; 18 to 24 ins., 25c; 1-yr., T, F, mostly branched, 12 to 18 ins., 30c; 18 to 24 ins., 40c; 2 to 3 ft., 50c.

**Chaenomeles Nivalis**—best known white, RC, June 55, 10c; BG, 6 to 12 ins., 18c; 12 to 18 ins., 24c; 18 to 24 ins., 30c.

**Chaenomeles Hybrids**—deep red, upright, nonfruiting and deep pink, upright, nonfruiting, heavy liners, T, F, mostly branched, 12 to 18 ins., 15c; 18 to 24 ins., 25c; 2 to 3 ft., 35c.

**Chaenomeles japonica**—selected, uniform red strain, low, compact, rounded shrubs, own root from cuttings. Heavy liners, T, F, mostly branched, 12 to 18 ins., 10c; 18 to 24 ins., 20c; 2 to 3 ft., 30c.

We also have nearly 50 other named varieties in small quantities under test. Please inquire if interested.

**Cydonia**—see **Chaenomeles**.

**Elaeagnus fruticuli**—RC, June 55, 8c; light, BG, 6 to 9 ins., 12c; 2-yr., T, F, 12 to 18 ins., 25c.

**Elaeagnus pungens reflexa**—RC, June 55, 8c; 2-yr., T, F, 8 to 12 ins., 20c.

Foremost in intermittent mist propagation.  
Originator of the Electronic Leaf Control.



**Euonymus alatus compactus**—RC, June 55, 8c. **Euonymus patens (knauschiensis)** — large-leaved, BG, 12 to 18 ins., 12c; 2-yr., T, F, 8 to 12 ins., 15c; 12 to 18 ins., 25c.

**Euonymus patens Newport (knauschiensis)** — intermediate leaf, relatively nonfruiting — RC, Aug. 55, 8c; BG, 8 to 12 ins., 12c.

**Euonymus patens (knauschiensis)** — small-leaved, usually called **carriieri** in the south, very similar or identical to **radicans erecta**, RC, Aug. 55, 6c; BG, 8 to 12 ins., 10c; 1-yr., T, F, 8 to 12 ins., 15c; 2-yr., T, F, 12 to 15 ins., 25c.

**Ginkgo biloba**—S, 8 to 12 ins., 15c.

**Ilex cornuta**—RC, June 55, heavy, 6 to 12 leaves, 8c; BG, T, 6 to 9 ins., 15c; 9 to 12 ins., 20c.

**Ilex cornuta burfordi**—RC, June 55, heavy, 6 to 12 leaves, 8c; BG, T, 6 to 9 ins., 15c.

**Ilex crenata convexa (bullata)** — large, RC, July 55, 7c; BG, T, 4 to 6 ins., 10c; 6 to 9 ins., 15c; 9 to 12 ins., 20c.

**Ilex opaca**—northern types, not southern hybrids, guaranteed female and guaranteed male, from cuttings, BG, some lightly branched, 4 to 6 ins., 17½c; 6 to 10 ins., 25c; for canning in gallon cans, 10 to 30 ins., 50c.

**Ilex rotundifolia**—large, RC, July 55, 7c; BG, T, 4 to 6 ins., 10c; 6 to 8 ins., 12½c; 8 to 10 ins., 15c.

**Ilex vomitoria** — female or male, selected strain, from cuttings, BG, T, 6 to 9 ins., 20c; 9 to 12 ins., 30c.

**Jasminum floridum**—BG, 8 to 12 ins., 10c; BG, 2-yr., 12 to 18 ins., 15c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.

**Jasminum nudiflorum**—BG, 8 to 12 ins., 10c; BG, 2-yr., 12 to 18 ins., 15c; T, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.

**Laurel Cherry**—see **Prunus**.

**Ligustrum lucidum macrophyllum** (Black-Leaved Privet)—BG, 4 to 8 ins., 8c; 8 to 12 ins., 15c.

**Ligustrum sinense pendulum** (Weeping Privet)—BG, 8 to 12 ins., 10c.

**Mahonia bealei**—2-yr., BG, transplanted, 4 to 6 ins., 10c; 6 to 9 ins., 15c.

**Prunus caroliniana** (Carolina Laurel Cherry) —S, 4 to 8 ins., 4c; 8 to 12 ins., 6c; 12 to 18 ins., 8c.

**Prunus laurocerasus officinalis** (English Laurel Cherry)—RC, July 55, 10c; BG, 6 to 12 ins., 20c.

**Prunus laurocerasus schipkaensis** (Hardy Laurel Cherry)—RC, July 55, 10c; BG, 6 to 12 ins., 20c.

**Prunus laurocerasus**—BG, 6 to 12 ins., 8c; 12 to 24 ins., 15c.

**Viburnum burkwoodii**—T, F, own root, branched, 9 to 15 ins., 30c.

**Viburnum rhytidophyllum**—RC, June 55, 10c; BG, T, 6 to 9 ins., 17½c; 9 to 12 ins., 25c; 12 to 15 ins., 35c; 2-yr., T, F, branched, 9 to 12 ins., 35c; 12 to 18 ins., 50c.

**Weigela variegata nana**—BG, single cane, 12 to 18 ins., 10c; 18 to 24 ins., 15c.

**Weigela vaniciei**—BG, single cane, 12 to 18 ins., 12c; 18 to 24 ins., 17½c.

**FREE PACKING**, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.

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Heavy, Transplanted Stock

	Per 100	Per 1000
<b>Cornus florida</b> (White Dogwood), 5 to 6 ft., B&B .....	\$120.00	
4 to 5 ft., B&B .....	100.00	
3 to 4 ft., B&B .....	75.00	
2 to 3 ft., B&B .....	50.00	
18 to 24 ins., B&B .....	40.00	
All plants bare-rooted, less 25c each.		
<b>Spiraea vanhouttei</b> , 3-yr., 2 to 3 ft., heavy, br. ....	6.00	\$ 50.00
<b>Tulip Poplar</b> , 2-yr., T, 6 to 7 ft., B&B .....	100.00	750.00
2-yr., T, 5 to 6 ft., B&B .....	75.00	650.00
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Ash, American White, Per 10	Per 100
8 to 10 ft. ....	\$30.00
10 to 12 ft. ....	42.50
Beech, American, Write for prices.	
Birch, Cut-leaved Weeping, 5 to 6 ft. ....	22.50
6 to 8 ft. ....	35.00
8 to 10 ft. ....	42.50
Birch, European White 5 to 6 ft. ....	17.50
6 to 8 ft. ....	32.50
8 to 10 ft. ....	37.50
Catalpa bungei, 5 to 6 ft., 2-yr. heads. ....	22.50
6 to 7 ft., 2-yr. heads. ....	27.50
Catalpa speciosa, 6 to 8 ft. ....	20.00
Dogwood, Pink, 18 to 24 ins., N.B. ....	14.50
2 to 3 ft., N.B. ....	\$150.00
3 to 4 ft., B&B. ....	23.00
4 to 5 ft., B&B. ....	220.00
4 to 5 ft., B&B. ....	45.50
4 to 5 ft., B&B. ....	400.00
4 to 5 ft., B&B. ....	60.00
Elm, Chinese and American, 6 to 8 ft. ....	15.00
8 to 10 ft. ....	22.50
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Gum, Sweet and Sour, Write for prices.	
Honey Locust, Thornless, 5 to 6 ft. ....	15.00
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8 to 10 ft. ....	30.00
Linden, American, 6 to 8 ft. ....	22.50
8 to 10 ft. ....	25.00
10 to 12 ft. ....	35.00
Maple, Norway, 6 to 8 ft. ....	32.50
8 to 10 ft. ....	40.00
Maple, Scarlet, 5 to 8 ft. ....	35.00
8 to 10 ft. ....	42.50
Maple, Schwedler's, 6 to 8 ft. ....	37.50
8 to 10 ft. ....	45.00
Maple, Silver, 5 to 8 ft. ....	20.00
8 to 10 ft. ....	190.00
10 to 12 ft. ....	240.00
Maple, Sugar, 6 to 8 ft. ....	35.00
8 to 10 ft. ....	42.50
OAK—American White, Pin, Austrian, Turkey, Scarlet, 5 to 6 ft. ....	35.00
6 to 8 ft. ....	42.50
8 to 10 ft. ....	60.00
Oak, Pin, 2 to 2½-in. cal., 2½ to 3-in. cal. and 3 to 3½-in. cal., B&B specimens—ask for quotations.	
Poplar, Lombardy, 5 to 6 ft. ....	5.00
6 to 8 ft. ....	45.00
8 to 10 ft. ....	6.50
8 to 10 ft. ....	80.00
WILLOW—Babylonica, Golden and Thuriow Weeping, 5 to 6 ft. ....	12.50
6 to 8 ft. ....	16.00

Ask for prices on other varieties and larger sizes in Shade Trees, also complete Wholesale Price List.

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spot diseases and foliage insects, such as red spiders, crawlers of the scale insects and many chewing insects.

Powdery mildew can best be controlled with karathene, one pound to 100 gallons of water, or a 1 per cent dust.

### Root Diseases

Root Rot—Camellia root rot, caused by *Phytophthora cinnamoni*, is still the principal disease. It attacks over 100 species of plants, including camellias, azaleas, junipers, pines and many more ornamentals. Disease control consists of sterilizing infected soil, planting clean plants and preventing recontamination by drainage water. Dr. D. L. Gill found that one ounce of copper sulphate or copper A to seven to 14 square feet gave protection against this disease. Additional chemicals are under test at this station. One experimental material, Crag 974, has killed nematodes, the root-rot fungus and many species of weeds when used as a drench two weeks ahead of planting. Little, if any, success has been had with the curing of infected plants by chemical treatments.

Nematodes—Nematodes are small, microscopic eel-like worms which feed on plant roots. Some enter the roots and produce knots, while others remain on the outside. Infected root systems may have knotty or stubby roots and may even have rotted roots as a result of later invasion by fungi. Affected azaleas have stubby roots, often are extremely chlorotic as an iron deficient plant and can be pulled from the ground with little effort.

Steps recommended in growing nematode-free plants in the nursery include the following:

- (1) Root cuttings in clean, nematode-free media. Some of the sand used may actually have nematodes, especially if outside ground rooting beds are used.
- (2) Plant in fumigated soil. Soil for both beds and potting should be fumigated with methyl bromide, one pound to 1,000 square feet, for at least 24 hours. When fumigated the soil should have a moisture content ideal for planting—neither too wet nor too dry. After fumigation the soil should be stirred with a rotary tiller and aired for 24 to 48 hours. Holly cuttings should not be planted in freshly fumigated soil. Preliminary work at the station has indicated little or no injury with older liners. Other

## SURPLUS STOCK

Per 100 Per 1000

<b>Abelia grandiflora</b> (Glossy Abelia), field-grown		
12 to 18 ins., C. ....	\$ 9.00	\$ 80.00
12 to 18 ins., 2-yr., br. ....	11.00	100.00
18 to 24 ins., 3-yr., br. ....	16.00	150.00
2 to 3 ft., 4-yr., br. ....	25.00	.....

We have over 50,000 of two and three-year-old Abelia. Let us book your order while they last.

<b>Hydrangea paniculata grandiflora</b> (Peegee Hydrangea)		
8 to 12 ins., C. ....	6.00	50.00
12 to 18 ins., 2-yr., br. ....	9.00	80.00
18 to 24 ins., 3-yr., br. ....	16.00	150.00
2 to 3 ft., 4-yr., br. ....	25.00	.....

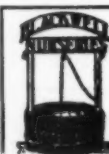
<b>Spiraea vanhouttei</b> (Van Houtte Spiraea)		
6 to 12 ins., C. ....	3.50	25.00
12 to 18 ins., C. ....	4.50	35.00
12 to 18 ins., 2-yr., br. ....	6.00	50.00
18 to 24 ins., 3-yr., br. ....	8.50	75.00
2 to 3 ft., 4-yr., br. ....	20.00	.....

<b>Cornus florida</b> (White-flowering Dogwood)		
	Per 10	Per 100
2 to 3 ft., whips ....	\$ 3.00	\$ 20.00
2 to 3 ft., well-br. ....	5.00	40.00
3 to 4 ft., well-br. ....	8.00	70.00
4 to 5 ft., well-br. ....	11.00	100.00

<b>NATIVE EVERGREENS</b>		
<b>Rhododendron maximum, Kalmia latifolia, Ilex opaca, Tsuga canadensis</b>		
	Per 100	Per 1000
3 to 6 ins., S. ....	\$3.00	\$20.00
6 to 9 ins., S. ....	4.00	30.00
9 to 12 ins., S. ....	6.00	50.00
12 to 18 ins., S. ....	8.00	70.00

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NAUGHER'S Pink Dogwoods are dormant budded on transplanted seedlings, insuring heavy root systems, good caliper and well-branched trees. Our grading is very liberal. All orders will be promptly acknowledged, greatly appreciated and expedited with personal supervision.

NAUGHER'S field-grown evergreen liners are produced under ideal conditions—properly irrigated, cultivated, fertilized, root-pruned—thus, a hardy, well-rooted liner. Our liners are dug, graded and made ready for shipment within a 48-hour period. NAUGHER'S packing is free when cash accompanies order. Fifty or more plants at 100 rate; 300 or more at 1000 rate.

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materials for use in soil sterilization are under investigation.

- (3) Control the drainage and soil movement so as to prevent recontamination of the bed. Shell Chemical Co. has an experimental nematocide which lasts for many months. This material may solve the recontamination problem.
- (4) Field plantings should be made with five to 10 gallons of ethylene dibromide W-85 or 20 to 40 gallons of Shell DD per acre to reduce the nematode population in the field.

The best treatment for severely infested plants is to destroy the plants, because their growth will usually be too slow to make them profitable. Where there is no root rot and only a mild infestation of the external feeding nematodes, considerable benefit will be derived from washing of the roots and replanting in clean soil. Some chemical drenches are available, but this station has not enough experimental results on their effectiveness or plant safety to recommend their use.

Crag Herbicide One, two to three pounds per acre solid treat-

### FIELD-GROWN EVERGREEN LINERS

	Each	Per 100	Per 1000
Andorra Juniper, 1-yr., 6 to 12 ins. . . . .	12½c	10c	
Ashford Juniper, 1-yr., 6 to 12 ins. . . . .	12½c	10c	
2-yr., 6 to 18 ins. . . . .	17½c	15c	
Fastigiata Juniper			
1-yr., 6 to 12 ins. . . . .	12½c	10c	
2-yr., 6 to 18 ins. . . . .	17½c	15c	
*Greek Juniper, 1-yr., 6 to 12 ins. . . . .	12½c	10c	
Hetz Juniper, 1-yr., 6 to 12 ins. . . . .	17½c	15c	
Irish Juniper, 1-yr., 6 to 12 ins. . . . .	12½c	10c	
*Pfitzer Juniper, 1-yr., 6 to 12 ins. . . . .	17½c	15c	
*Compact Pfitzer Juniper			
1-yr., 6 to 12 ins. . . . .	17½c	15c	
Savin Juniper, 1-yr., 6 to 12 ins. . . . .	12½c	10c	
2-yr., 8 to 15 ins. . . . .	17½c	15c	
*Root-pruned.			

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LIQUIDAMBAR STYRACIFLUA, Sweet Gum	Per 10	Per 100
3 to 4 ft., branched . . . . .	\$ 7.50	\$ 65.00
4 to 5 ft., branched . . . . .	10.00	90.00
5 to 6 ft., branched . . . . .	12.50	100.00
6 to 8 ft., branched . . . . .	20.00	150.00

ASIMINA TRILOBA, Papaw	4.00	35.00
2 to 3 ft., seedlings . . . . .		
3 to 4 ft., branched . . . . .	5.00	40.00
4 to 5 ft., branched . . . . .	7.50	60.00

We offer the above stock with an absolute guarantee, if not entirely satisfied when they reach you, call us COLLECT immediately.

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18 to 24 ins., B&B 30 to 36 ins., B&B  
24 to 30 ins., B&B 36 to 48 ins., B&B  
Juniper, *hetzi* (sheared)  
18 to 24 ins., B&B 24 to 30 ins., B&B  
Juniper, *Pfitzer Compact*  
12 to 15 ins., B&B 15 to 18 ins., B&B  
Juniper, *Irish*  
24 to 30 ins., B&B 36 to 40 ins., B&B  
30 to 36 ins., B&B  
Juniper, *Greek*  
15 to 18 ins., B&B 30 to 36 ins., B&B  
18 to 24 ins., B&B 36 to 48 ins., B&B  
24 to 30 ins., B&B  
Juniperus *canaerti* (Dark Green)  
18 to 24 ins., B&B 4 to 5 ft., B&B  
Juniper, *Chinese*  
18 to 24 ins., B&B  
Juniper, *Hill Dundee*  
3 to 4 ft.  
Juniperus *virginiana glauca*  
3 to 4 ft., B&B 4 to 5 ft., B&B  
Juniper *ketelerei*  
2 to 3 ft., B&B  
Arborvitae, *Berkmans Golden*  
18 to 24 ins., B&B  
Arborvitae, *Baker Pyramidal*  
2 to 3 ft., B&B  
3 to 4 ft., B&B 4 to 5 ft., B&B  
Arborvitae, *American*  
15 to 18 ins., B&B 2 to 3 ft., B&B  
18 to 24 ins., B&B  
Chamaecyparis (Plumed Cypress)  
18 to 24 ins., B&B  
2 to 3 ft., B&B 3 to 4 ft., B&B  
PINE, *MUGHO*  
12 to 15 ins., B&B 18 to 24 ins., B&B  
15 to 18 ins., B&B 24 to 30 ins., B&B

### SHADE TREES

Chinese Elm  
6 to 8 ft., B.R.  
Sycamore  
12 to 14 ft., 2-in. cal.  
Pin Oak  
12 to 14 ft., 1 1/4-in. cal.

### BROAD-LEAVED EVERGREENS

Euonymus *patens*  
15 to 18 ins., B&B  
Ligustrum *lucidum* (Glossy Privet)  
15 to 18 ins., B&B  
18 to 24 ins., B&B 24 to 30 ins., B&B  
Nandina *domestica*  
18 to 24 ins., B&B 30 to 36 ins., B&B  
24 to 30 ins., B&B  
Holly, *Burford*  
15 to 18 ins., B&B 24 to 30 ins., B&B  
18 to 24 ins., B&B  
Boxwood, *sempervirens*  
12 to 15 ins., B&B  
Magnolia *grandiflora*  
2 to 3 ft., B&B 4 to 5 ft., B&B  
3 to 4 ft., B&B 5 to 6 ft., B&B

### FLOWERING SHRUBS

Butterfly Bush  
Pink. 5 to 6 ft., B.R. Blue. 5 to 6 ft.  
Cydonia *japonica*  
3 to 4 ft., B.R.  
Forsythia *spectabilis*  
4 to 5 ft., B.R. 18 to 24 ins., in cans  
Lonicera *fragrantissima* (Winter Honeysuckle)  
3 to 4 ft.  
Magnolia *soulangeana* (nigra, purple)  
2 to 3 ft., B&B 3 to 4 ft., B&B  
Magnolia *soulangeana*  
2 to 3 ft., B&B 3 to 4 ft., B&B  
Crape Myrtle  
William Toovey, 2 to 3 ft., B.R.  
Red, in gallon cans  
Flowering Almond  
2 to 3 ft., B.R.  
Tamarix  
2 to 3 ft., in gallon cans  
Viburnum  
2 to 3 ft., in gallon cans  
Amur River South Privet  
4 to 5 ft., heavy

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Chinese Elm    White Dogwood    Crape Myrtle    Grapevines

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## PINK FLOWERING DOGWOOD

<i>Cornus florida rubra</i>	Each	Each	Each
	Per 10	Per 100	Per 1000
12 to 18 ins.	\$0.85	\$0.75	\$0.70
18 to 24 ins.	1.25	1.00	.90
3 to 3 ft.	1.50	1.25	1.15
3 to 4 ft.	3.00	2.50	2.00
4 to 5 ft.	4.50	4.00	3.75
5 to 6 ft.	5.50	4.50	...

(B&amp;B—add 50c extra per plant)

Boyd Nursery Co., McMinnville, Tenn.

ment, has been the most promising herbicide investigated to date for use in nursery beds.

Dalapon has been used around camellias and azaleas to control Bermuda grass. Two pounds per acre in 50 gallons of water has killed Bermuda grass and centipede grass. It has given poor control of nutgrass. No apparent damage has resulted in either camellias or azaleas thus far. Later observations will be made.

TCA has given good grass control at 100 pounds per acre, but cannot be used where it will leach down to the roots of the ornamentals.

Cotton herbicidal oil, 10 gallons per acre to a 10-inch band, has burned down the tops of annual weeds, crab grass, Bermuda grass and nutgrass. It has been nontoxic to ornamentals, except when applied at high temperatures.

### Fertilization of Potted Plants

One level teaspoonful of 6-8-8, 12-12-12 and Golden Vigoro (6-10-4) at 3-week intervals has given good plant growth on a wide variety of container plants. However, two teaspoonfuls of 12-12-12, derived from urea, and 0-14-14 killed azalea plants. Two teaspoonfuls of Golden Vigoro produced chlorosis on azaleas similar to that caused by iron deficiency.

### Camellia Understocks

Ten or 12 varieties of Camellia sasanqua and C. japonica commonly used as understock are being studied to determine the most desirable understock for grafting with C. japonica. Their resistance to phytophthora root rot and various parasitic nematodes is being studied. Rate of growth and the desirability of type of root systems produced are also being observed. The most rapidly growing japonica with a fibrous root system (believed to be the best type of root system for container-grown plants) observed so far is Elizabeth, and apparently the best sasanqua is the floribunda.

### Other Projects

Other problems under investigation at this station are:

(1) Growing of pecans in containers for sale to the home owner.

(2) Cultural and disease control experiments on Magnolia grandiflora in cans. By the use of seed treatment, fumigation of seedbed and potting soil and application of fungicidal sprays, 4 to 5-foot specimen plants have been produced from seeds in 20 months.

(3) In cultural, disease control and fertility studies on loquats, the



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**ALAMEDA**, purple-rose flowers, wine-red fruit

**ALMEY**, fiery-crimson flowers, maroon fruit

**ARROW**, purplish-red flowers, red fruit

**ATROSANGUINEA**, carmine flowers, reddish fruit

**BACCATA**, white flowers, red or yellow fruit

**ELEYL**, vinous-red flowers, purplish-red fruit

**FLORIBUNDA**, rosy-white flowers, yellow and red fruit

**FLORIBUNDA PURPUREA**, purplish-red flowers, purplish-red fruit

**GENEVA**, purplish-red flowers

**GLORIOSA**, purplish-red flowers, bright red fruit

**HOPA**, rosy flowers, red fruit

**MAKAMIK**, China rose flowers, purplish-red fruit

**NIEDZWETSKYANA**, purple-red flowers, bright red fruit

**RED SILVER**, China rose flowers, purplish-red fruit

**SCHEIDECKERL**, pale pink flowers, yellow to orange fruit

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value of early transplanting from the seedbed to cans has been demonstrated. Seed treatment studies are in progress. Preliminary fungicidal spray work is underway. Sprays have been more satisfactory than dusts on this crop. Maneb (Manzate or M-22) two pounds to 100 gallons, plus two pounds of 25 per cent malathion have been used most frequently on the loquats in the general planting at this station.

(4) Studies on the causes of damping-off of azaleas and other cuttings in the greenhouse.

(5) Study of a previously unreported fungous disease of St. Augustine grass.

(6) The use of systemic insecticides on ornamentals.

## Use of Systemics

Some of the results of the research with systemics done by the Alabama Polytechnic Institute agricultural experiment station are summarized as follows:

Of six systemics tested, demeton (Systox) and Compound 21/116 (related to Systox) were the most effective and controlled tea and camellia scale, azalea lace bugs, white flies and thrips.

Best mixture rate is one teaspoon-

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ful for 50 per cent emulsifiable concentrate of either compound to one gallon of water.

Best results were obtained from two applications 30 days apart.

Plants were found free of scale even three months after application.

Applications of the mixture to the soil were as effective as applications to plant foliage; they may be applied any time.

In applications to soil, the best results were obtained from applying a half pint of mixture to soil around base of plants 18 to 24 inches tall. Larger plants required larger amounts.

In case of sprays, the plants were wet thoroughly and to the extent that there was some runoff of the solution. Thorough coverage of the underside of leaves was found important. Effectiveness of control by spray method depends to a large extent upon thoroughness of spraying.

Spider mites are harder to kill than the other pests. To obtain control, it was necessary to double the dosage rate (two teaspoonsful to one gallon of water) of demeton or Compound 21/116 applied either to soil or foliage. It was also necessary to apply the heavier dosage often enough to maintain control.

After systemics have been applied to soil or foliage, it takes two to three weeks to determine if scale insects or white flies are dead. Dead scales or white flies will begin to drop from leaves after five to six weeks. Although good control may be obtained, appearance of leaves to the naked eye may be unchanged for several weeks.

Systemics are highly toxic to warm-blooded animals. Therefore, to use them one must be willing to comply with the precautionary measures listed by the manufacturer.

Systemic insecticides appear to be the answer to the homeowner's and nurseryman's dream of a simple and effective method of keeping ornamental plants free of insects.

Henry P. Orr

**MICHIGAN LICENSE EDICT**

A recent opinion of the attorney general of Michigan established that nurserymen from foreign countries who sell nursery stock through agents in that state must conform to the provisions of the Michigan insect pest and plant disease act (act No. 189, P.A. 1931, as amended).

This act provides that "Nurserymen, dealers, buyers, growers or other persons, firms, partnerships, associations or corporations desiring to solicit orders for nursery stock

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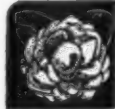
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through agents in this state shall, upon filing a certified copy of their valid state certificate with the commissioner of agriculture, pay to the commissioner of agriculture an annual license fee of \$15."

The act further provides that agents of such nurserymen must have agents' permits issued at the cost of \$5 annually.

The definition of nursery stock in the act includes "All botanically classified hardy perennial or biennial trees, shrubs, vines and plants, either domesticated or wild; cuttings, grafts, scions, buds, bulbs, rhizomes or roots thereof, fruit pits; also other such plants and plant parts for, or capable of, propagation, excepting field, vegetable and flower seeds, corms and tubers." Therefore, foreign firms selling bulbs through agents in Michigan must also be licensed, and their agents must have permits.

Effective September 15, 1955, foreign nursery and bulb firms and their agents were expected to apply to the Michigan department of agriculture, bureau of plant industry, for licenses and permits if they planned to conduct business in Michigan on or after that date. Failure to comply with the provisions of act 189 will subject such firms and their agents to the same penalties of the law as prescribed for United States firms and their agents, according to an announcement released by C. A. Boyer, chief, bureau of plant industry, Michigan department of agriculture.

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Biota Sybil	.18
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Pfitzer Juniper	.16
Von Ehron Juniper	.14
Juniperus glauca hetzi	.18
Ilex crenata convexa (Bullata)	.14
Ilex crenata rotundifolia	.14
Ilex cornuta burfordii	.15
2-YR., UNDER LATH	
Andorra Juniper	.16
Compact Pfitzer Juniper	.22
Pfitzer Juniper	.18
Von Ehron Juniper	.16
Juniperus glauca hetzi	.22
Ilex crenata convexa (Bullata)	.16
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## CALIFORNIA ASSOCIATION OF NURSERYMEN

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### CENTINELA CHAPTER

The August meeting of the Centinela chapter of the California Association of Nurserymen was held recently at Fat Eddie's cafe, Inglewood, Calif. A chicken dinner was enjoyed by all.

It was election night, and the following were named to office: President, Harvey Ehlers, Culver City; vice-president, Robert Warner, Manhattan Beach; secretary, George Schmidt, Redondo Beach; treasurer, Kikuo Matsuyama, Gardena; state director, Lynne Seright, Inglewood, and board of directors, Lewis Hammond, Inglewood; Bo Packard; George Yoshiki, Hawthorne; Joe Beeler, Inglewood; Richard Oehlman, Los Angeles, and Frank Kamada, Hawthorne.

William J. Megraw, Sec'y.

### REDWOOD EMPIRE MEETING

The September meeting of the Redwood Empire chapter of the California Association of Nurserymen was held in the Rancho Santa Rosa, Santa Rosa, September 20. The meeting was opened at 7:30 p. m. by the new president, P. T. Peterson, Kenwood Nursery, Kenwood.

The secretary read the minutes of the August meeting and reported on correspondence. President Peterson called on Mrs. Carl Unterman for a report of the barbecue committee.

Walter Leiser, Mann's Nursery, Petaluma, reported that the chapter had won an award of \$200 at the Sonoma county fair. Mr. Leiser was assisted by Henry Martin; Harold Prickett, Prickett's Nursery, Santa Rosa, and P. T. Peterson in installing the exhibit.

Harold Prickett reported on the recent directors' meeting held during the state association meeting at Yosemite national park, details of which were published in the preceding issue.

President Peterson welcomed State President Don Perry, San Anselmo, and the group greeted him with a round of applause.

### Committee Appointments

President Peterson appointed Mr. and Mrs. Paul Clark to plan the Christmas party this year. He also requested that Dosia Prickett head

the new welcome committee, to introduce new members and visitors.

Mr. Thatcher asked for information on the sale of nursery stock from state nurseries. Don Perry informed the group that this stock can only be used on public property.

A letter from Northern California Camellia Society, Inc., was read, offering copies of the report of the experimentation committee, with cultural notes and a list of varieties recommended for the Bay area. The secretary was instructed to write for copies.

Mr. Thatcher asked about the possibility of cooperative buying by the chapter members. It was reported

that both the Kern county and the San Fernando Valley chapters had dropped this project, as the operations were not successful.

### Invite County Commissioners

The secretary was instructed to notify the agricultural commissioners of the five counties in the area when the Redwood Empire chapter meetings are held and invite them to attend. They are to be informed that they are honorary research members, such membership being effective for one year. A motion was made and seconded that a future program be arranged with a speaker from the nursery service.

Mr. Lund asked about new regulations on the sale of certain spray materials. It was reported that purchasers of more than a pint of the products would have to obtain a permit from the agricultural commissioners. The secretary offered to investigate this regulation.

Don Perry reported attending the

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convention of the Oregon Association of Nurserymen at Gearhart and presented the talk he made at that convention — "Are Dollars Flying Out of Your Pockets?"

Hugh Wallace, Sec'y.

### SANTA CLARA FAIR

At the Santa Clara county fair, Santa Clara, Calif., local nurserymen contributed extensively to the educational and artistic values of the exhibits. The Santa Clara Nursery made use of a large lawn area of dichondra in its display. In the background were camphor and magnolia trees, faced with perennials. Edging the lawn were fibrous-rooted begonias, balsam, petunias, ageratums and ferns.

Hamilton Fish, Los Gatos landscape architect, planned a home garden, assembling the material from a number of the local nurseries. He built a formal terraced garden, planted with a number of the more easily grown annuals and perennials. The terracing effect is popular with the senior citizens who are becoming a factor in the local nursery trade. These older folk want plants from which the results are relatively quick, which are easy to care for and which are so located that they require a minimum of leaning over them by the grower. The terracing fits that last requirement satisfactorily.

Adrian's Landscaping Service engaged the services of Gerry Wolff to set up a display that included a small waterfall as a point of interest. At its foot was a wading pond in which were goldfish and metal cranes. The plantings showed high shrubs in the background and generous use of annuals and perennials in the borders. Miss Wolff is a recent graduate of the school of landscape gardening at the University of California in Berkeley. W. B. B.

### DEERING ABROAD

Robert B. Deering, chairman of the landscape management department on the University of California campus at Davis, is lecturing in Europe during the current school year. He will spend the year as a Fulbright lecturer at the Agricultural Institute at Wageningen, the Netherlands.

While in Europe, Mr. Deering will study the use of plants and architectural materials in home gardens. He will also search for drought-resistant ornamentals in the western Mediterranean region of southern France and Italy. Mr. Deering is looking for shrubs and trees that



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Apple  
Pink-flowering Dogwood  
Chinese Elm  
Camperdown Elm  
Paul's Scarlet Thorn  
Honey Locust  
Globe Locust  
Idaho Pink Locust  
Japanese Lace-leaved Maple  
Palmatum Rubrum Maple  
Faassen's Black Maple  
Norway Maple  
Red Maple (rubrum)  
Schwedler Maple  
Silver Maple  
Red and Scarlet Oak  
Flowering Peach

Plane Tree, European  
Flowering Plum  
Bilreiana, Newport, piasardi, Thundercloud,  
Vesuvius, cistena, triloba  
Redbud (canadensis)  
Sweet Gum, B. R. and B&B  
Tulip Tree  
Willow  
Azalea mollis  
Azalea Altacalarensis  
California Privet  
English Privet  
Lodense Privet  
Arbovitae, 12 varieties  
Juniper, 22 varieties  
Spruce, Dwarf Alberta  
Spruce, Colorado Blue and Green  
Spruce, Norway  
Taxus cuspidata (Japanese)  
Taxus capitata (Japanese)  
Taxus brevifolia  
Taxus Browni  
Taxus hatfieldi

Taxus hicksii  
Taxus, Irish green and golden  
Taxus, English, upright  
Andromeda, Japanese  
Aucuba, Japanese  
Boxwood  
Camellias  
Cotoneaster  
Daphne  
Euonymus  
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343 S. Dearborn St. Chicago 4, Ill.

will use less water in California's warm interior valleys.

The Davis plant scientist also will visit botanical gardens and experiment stations in England and Germany. In September, he delivered a paper on horticulture and the improvement of hot environments at the 14th International Horticultural Congress, in Scheveningen, the Netherlands. He will return to Davis in September, 1956.

## OREGON FIRM IN NEWS

An account of the development of the Santiam Valley Nursery, owned and operated by Mr. and Mrs. Carroll W. Settlemeier near Lebanon, Ore., recently appeared in the Lebanon Express. The article tells how this nursery is linked with a family enterprise started 105 years ago.

In the spring of 1849 George Settlemeier crossed the plains with a large supply of fruit seeds stowed in his covered wagon. It was his intention to follow the family tradition and establish a center for the distribution of fruit trees in the new land. By the spring of 1850, this pioneer had his first growth of young trees, marking the beginning of a business that has attracted four generations of the family.

At the age of 13, while still attending school, Carroll Settlemeier was learning the rudiments of his chosen profession in the Hudson Nursery, at Tangent. At 18, he was in partnership with his brother George, in a nursery near Albany, where the latter still conducts the Settlemeier Nursery.

## Bulk of Trade Wholesale

Mr. and Mrs. Carroll Settlemeier, both residents of Linn county, started their nursery enterprise in 1939, on a 3-acre plot. Their holdings now extend to 25 acres, 20 of which are under irrigation. They grow approximately 50,000 fruit trees each year, in addition to 15,000 evergreens and shrubs, a variety of berries and many small plants. The firm has a substantial retail business, but the bulk of the production goes to the Portland market and other nurseries in the state.

Following a steady program of expansion and improvement, the Settlemeiers built a greenhouse 19x54 feet, and shortly after a lath house was constructed. The large packing shed, 30x90 feet, went up as a result of the bitter winter of 1949-50, when more than 30,000 young trees perished during the long spell of freezing weather. In spite of this era of misfortune, however, the Settlemeiers





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soon brought their stock up to capacity and embarked on a program of further expansion.

Three cultivating tractors are used at the nursery, and one caterpillar-type machine is equipped with a tree-digging attachment. Three regular workers are employed.

### PREPARING MAPLE LIST

A committee of the American Association of Botanical Gardens and Arboretums is preparing a check list of all species, varieties and forms of maple (acer) in cultivation in the United States and Canada, for publication in the spring of 1956.

As it is most desirable that this list should be as complete as possible, anyone growing or having knowledge of unusual types of maple is asked to send information to the chairman of the committee, B. O. Mulligan, University of Washington Arboretum, Seattle, 5, as soon as possible. Botanical name and location are especially required; size (height and trunk diameter) only if unusually large. Trees of uncertain identity should be checked by a competent authority or else listed as doubtful.

Lists have already been received from seventeen arboreta or botani-

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4 to 5 ft. ....	17.30	148.00	12 lbs.
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1-yr. seedlings, field-grown, row-run,  
 \$5.00 per 100, \$35.00 per 1000.

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Will ship via parcel post if postage is included with order.

No order too large nor too small.

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 Euclid 23, O.

cal gardens, so that most of the commoner types are believed to be recorded.

## MONTANA-WYOMING MEET

[Continued from page 10]

but this method is of little help to the many small communities and rural areas.

## Favor Positive Approach

It was decided that the best course of action for association members to take would be to provide an increasing supply of trees, shrubs and other plant materials adaptable to this area, to publicize their establishments and to provide their customers with proper advice so that they can be successful in beautifying their homes with permanent plantings at reasonable cost. The maintenance of a high standard of business ethics is a requirement for membership in the group.

This positive approach to the situation, it was thought, would do more to decrease the itinerant traffic than use of more direct action. It was felt that the nursery business is now growing to such an extent in this area that there will soon be little need for outside firms to operate on a door-to-door basis.

There are now established retail nurseries in all the larger communities. Florists' firms and greenhouses that have done nursery business have built up their trade tremendously in the past few years. It is increasingly evident that any local nurseryman must be thoroughly informed of his products and see to their ethical distribution. The new organization can be an invaluable aid to this end.

Other problems brought up were the matters of guarantees and price-

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ing. A shortage of time restricted discussion on these items, but the program committee stated that they would be given important places in next year's agenda. Professor Emeritus F. M. Harrington invited all members to a turf conference planned for October at the college.

The meeting was closed with election of officers as given on a preceding page.

**Firms Represented**

Firms accepted for membership this year were Big Horn Nursery, Powell, and Morgensen Nursery, Casper, both in Wyoming, and Fisher Seed & Nursery Co., Belgrade; Mountain Home Nurseries, Haugen; Poncet Landscape Co., Great Falls, and Riverside Greenhouses & Nursery, Lewistown, all in Montana. The Willis Wholesale Nursery Co., Ottawa, Kan., was accepted as an associate member.

Charter member firms from last year who were represented again this year were State Nursery & Seed Co., Helena; Milam Greenhouses, Bozeman; Drum's Farm & Garden Center, Billings; Garden City Floral Co., Missoula; Billings Nursery, Billings, and Don M. Langohr, Florist, Bozeman, all of Montana. Mount Arbor Nurseries, Shenandoah, Ia., is an associate member.

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They are all under irrigation and have been sprayed regularly.

**Amoenia**  
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00.  
**Coral Bells**, can be used for forcing.  
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00.  
**Hinodegiri**, can be used for forcing.  
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00; 18-in., \$2.50; 20-in., \$3.50; 24-in., \$5.00; 30-in., \$6.00; 36-in., \$7.50.  
**Ledifolia Alba**  
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00; 18-in., \$2.50; 20-in., \$3.50; 24-in., \$5.00.  
**Snow**, can be used for forcing.  
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25.  
**Maxwellii**  
6-in., 50c; 8-in., 75c; 10-in., \$1.00.  
**Kaempferi**, **Fedora**, **Othello**, **Salmon Beauty**, **Orange Queen**  
6-in., 50c; 8-in., 75c; 10-in., \$1.00; 12-in., \$1.25; 15-in., \$2.00; 18-in., \$2.50; 20-in., \$3.50; 24-in., \$5.00; 30-in., \$6.00; 36-in., \$7.50.

Rooted cuttings of all the above, \$50.00 per 1000.

We also have the following varieties in the smaller sizes: **Louise**, **Favorite**, **Beethoven**, **Johann Strauss**, **Rose Bud**, **Rose Greely** and **Addy Wery**.

Our Azaleas are well-budded and dark green; they are bushy and are well-shaped. Come out and look before you buy.

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24 to 28 ins.	8.00 each	7.50 each
28 to 32 ins.	10.00 each	
32 to 36 ins.	12.50 each	
3 to 3 1/2 ft.	\$15.00 each	
3 1/2 to 4 ft.	\$25.00 each	
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Azalea Purple Triumph (new), large, ruffled rhodamine-purple. Vigorous grower, good foliage.

4 to 6 ins., T., 10 for \$4.00; 100 for \$30.00.  
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Azalea Palestrina, hardest white; harder than Latifolia Alba.

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Helena Vuyk, medium pink; large florets, vigorous grower; low spreading habits.  
5 to 7 ins., T., 10 for \$3.00; 100 for \$20.00.

Sibelius, orange-red; very hardy, vigorous, upright grower.  
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Evergreen Azaleas, mixed colors; pink, red, white, purple.

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PARROTT TULIPS, 7 1/2c each.  
Blue Parrott (blue), Fantasy (rose, inside salmon), Orange Favorite (orange), Sunshine (bright yellow), Red Champion (red), Black Parrott (blue-black).

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Double-flowering Carnation-type, 8 colors.		
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The best commercial varieties.

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5105 S.E. Steele St. Portland 6, Ore.  
CAMELLIA SASANQUA  
2-yr. heavy liners, 3 to 4 ft.  
\$12.50 per 100, \$100.00 per 1000.  
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## COTONEASTERS

## COTONEASTER PRAECOX

This is one of the hardest Cotoneasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for 1955:

	Per 100	Per 1000
Strong, 1-year seedlings, branched, 4 to 8 ins. ....	\$25.00	\$235.00
Transplants, 2-year, 8 to 12 ins. ....	50.00	
Cotoneaster horizontalis, strong 1-year seedlings ....	10.00	90.00
Cotoneaster divaricata, 1-year seedlings, 6 to 8 ins. ....	10.00	90.00

C. HOOGEENDOORN Newport, R. I.

## DELPHINIUMS

DELPHINIUM BELLADONNA IMPROVED  
August-sown field seedlings  
\$4.00 per 100, \$36.00 per 1000.  
RUSSELL BREECE, K. Delaware, O.

## EVERGREENS

## EVERGREEN LINERS AND CUTTINGS POT-GROWN AND TRANSPLANTS

Arborvitae, American, dark	Each—Per 100	Per 1000
green, 1-yr., 6 to 7 ins. ....	\$0.22	\$0.20
Arborvitae, globe Woodward, 5 to 6 ins. ....	.22	.20
Arborvitae, pyramidal, 1-yr., 6 to 7 ins. ....	.22	.20
Juniperus Pfitzer, 1-yr., 2 to 4 ins. ....	.24	.22
Juniperus chinensis Pfitzeriana, 1-yr. pots, 6 to 7 ins. ....	.22	.20
Juniperus chinensis Pfitzeriana, 2-yr., transplants, 6 to 9 ins. ....	.29	.27
Juniperus glauca Hetzi, 1-yr., 6 to 7 ins. ....	.20	.18
Juniperus glauca Hetzi, 3-yr., transplants, 12 to 15 ins. ....	.35	.32
Taxus cuspidata, 2-yr., 6 to 9 ins. ....	.24	.22
Taxus Browni, 2-yr., 5 to 6 ins. ....	.24	.22
Taxus media No. 8, spreading, 2-yr., 6 to 9 ins. ....	.24	.22
Taxus media, spreading, 2-yr., 6 to 9 ins. ....	.24	.22
Taxus Andersoni, 2-yr., 6 to 9 ins. ....	.24	.22
Taxus Hicksi, upright, 2-yr., 6 to 9 ins. ....	.24	.22
Euonymus alatus compactus, 1-yr., 6 to 7 ins. ....	.18	.16
Korean Boxwood, 1-yr., 3 ins. ....	.20	.18
Viburnum, leather-leaved, 1-yr. pots ....	.37	.37

## HEAVY ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

Boxwood, Korean, hardy ....	\$0.09	\$0.08
Boxwood, sempervirens, 2 to 3 ins. ....	.07	.06
Euonymus alatus compactus, 5 to 6 ins., 2-yr., branched ....	.09	.08
Euonymus erectus, 3 to 4 ins. ....	.07	.06
Euonymus patens, 3 to 4 ins. ....	.07	.06
Juniperus chinensis Pfitzeriana, 6 to 7 ins. ....	.12	.10
Arborvitae, pyramidal, 5 to 6 ins. ....	.11	.10
Arborvitae, globe, 4 to 5 ins. ....	.11	.10
Arborvitae, American, dark green; 5 to 6 ins. ....	.11	.10
Taxus Hicksi, 4 to 6 ins. ....	.11	.10
Taxus cuspidata, 5 to 6 ins. ....	.11	.10
Taxus media, spreading, 5 to 6 ins. ....	.11	.10
Taxus Andersoni, 5 to 6 ins. ....	.11	.10
Taxus media No. 8, 4 to 5 ins. ....	.11	.10
Taxus Browni, 4 to 5 ins. ....	.11	.10
Taxus Andersoni, 4 to 5 ins. ....	.11	.10
Taxus Hatfieldi, 4 to 5 ins. ....	.11	.10

Terms: 2 per cent discount and free packing for cash with order. Our stock guaranteed 100 per cent satisfactory or return within 5 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

PIERIS JAPONICA (Andromeda)

	Per 100	Per 1000
2 to 3 ins. T. ....	\$5.00	\$75.00

PLANE VIEW NURSERY, Newport, R. I.

## EVERGREEN LINERS

BERCKMANS' BIOTA A. N.	Each, per 100	1000
2-in. pots, 1-yr. ....	\$0.25	\$0.20
Field-grown, 3-yr. ....	.55	.50
Field-grown, 2-yr. ....	.40	.35
PYRAMIDAL ARBORVITAE		
Field-grown, 4-yr. ....	.60	.55
Field-grown, 2-yr. ....	.30	.25
WOODWARD GLOBE ARBORVITAE		
2 1/2-in. pots, 1-yr. ....	.20	.16 1/2
Field-grown, 4-yr. ....	.60	.55
Field-grown, 2-yr. ....	.30	.25
EXCELSA ARBORVITAE		
Thumb pots, 2-yr. ....	.20	.16 1/2
Field-grown, 2-yr. ....	.40	.35
TAXUS COLUMNARIS		
2 1/2-in. pots, 1-yr. ....	.22	.16 1/2
PFTZER JUNIPER		
2 1/2-in. pots, 1-yr. ....	.18	.15
2 1/2-in. pots, 1-yr. (heavy) ....	.22 1/2	.18 1/2
Field-grown, 2-yr. ....	.45	.40
Field-grown, 1-yr. ....	.30	.25
Rooted cuttings ....	.12	.10
BLUE PFTZER JUNIPER		
2 1/2-in. pots, 1-yr. ....	.25	.20
Field-grown, 2-yr. ....	.45	.40
Field-grown, 1-yr. ....	.30	.25
Rooted cuttings ....	.13	.12
ARMSTRONG PFTZER JUNIPER		
2-in. pots, 1-yr. ....	.22 1/2	.18 1/2
2-in. pots, 2-yr. ....	.26 1/2	.22 1/2
Field-grown, 2-yr. ....	.45	.40
HETZ GLAUCOA JUNIPER		
2 1/2-in. pots, 1-yr. ....	.22 1/2	.18 1/2
BURKI JUNIPER		
2 1/2-in. pots, 1-yr. ....	.27 1/2	.22 1/2

TERMS: Cash with order. For packing.

Orders for spring held for 1/4 deposit.

300 plants of one variety at 1000 rate.

Not less than 50 of a variety.

VOGE NURSERY

New Lebanon, O.

## GOLDEN GOOSE LINERS

For immediate delivery or for reservation.  
All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100
Ilex cornuta femina, 6 to 8 ins. ....	\$15.00
10 to 12 ins. ....	17.00
Ilex cornuta Burfordi, 6 to 8 ins. ....	13.00
10 to 12 ins. ....	15.00
Ilex crenata rotundifolia, 6 to 8 ins. ....	12.00
10 to 12 ins. ....	14.00
Ilex crenata bullata, 6 to 8 ins. ....	15.00
Ilex crenata microphylla, 6 to 8 ins. ....	15.00
Ilex opaca Howardi (Improved American Holly), 8 to 10 ins. ....	16.00
Photinia serrata, 8 to 10 ins. ....	15.00
Euonymus radicans (small leaf), 8 to 10 ins. ....	10.00
Euonymus patens (large leaf), 8 to 10 ins. ....	10.00
Ligustrum lucidum compactum, 8 to 10 ins. ....	10.00
Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.	
This stock guaranteed 100 per cent satisfactory, or return for full refund.	
TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.	

EVERGREEN NURSERIES

Poplar Pike

Germantown, Tenn.

## SEEDLINGS AND TRANSPLANTS

Variety and size	Per 100	Per 1000
Fir, Balsam, 2 to 4 ins., S. ....	\$3.00	\$20.00
Fir, Blue Douglas, 4 to 6 ins., S. ....	4.00	30.00
Fir, Blue Douglas, 6 to 8 ins., S. ....	5.00	40.00
Larch, European, 12 to 18 ins., S. ....	5.00	40.00
Pine, Austrian, 2 to 4 ins., S. ....	3.00	20.00
Pine, Austrian, 6 to 8 ins., T. ....	10.00	
Pine, Dwarf Mugho, 2 to 4 ins., S. ....	3.00	20.00
Pine, Ponderosa, 4 to 6 ins., S. ....	3.00	20.00
Pine, Red, 2 to 4 ins., S. ....	3.00	20.00
Pine, Red, 4 to 6 ins., S. ....	4.00	30.00
Pine, Red, 6 to 8 ins., T. ....	10.00	
Pine, Scotch, 4 to 6 ins., S. ....	4.00	30.00
Pine, Scotch, 6 to 8 ins., T. ....	10.00	
Spruce, Black Hills, 2 to 4 ins., S. ....	3.00	20.00
Spruce, Engelmann, 2 to 4 ins., S. ....	3.00	20.00
Spruce, Col. Blue, 2 to 4 ins., S. ....	3.00	20.00
Spruce, Col. Blue, 4 to 6 ins., S. ....	4.00	30.00
Spruce, Norway, 2 to 4 ins., S. ....	3.00	20.00

C. WILSON'S NURSERY, PEMBRINE, WIS.

## PFTZER JUNIPERS

500 choice plants, 24 to 42 ins.  
BERCKMANS' GOLDEN ARBORVITAE  
150 choice trees, 24 to 30 ins.  
PINES, several varieties, 2 to 5 ft.  
Will make special price on whole lot in ground, or B&B, or will sell lots of 30 or more. Cash. Purchaser of whole lot can have until next spring to finish moving them.

LESLIE W. GAIN

Box 317 Phone: 660 Rushville, Ill.

## PFTZER JUNIPER

Fine, unrooted cuttings, 12 ins. long, \$15.00 per 1000; same stock, 8 to 10 ins., \$10.00 per 1000.

Express only. Cash.

KRONE'S FLOWER SHOP &amp; NURSERY

4221 Grand Ave. Fort Smith, Ark.

## TAXUS

Excellent quality. For fall shipment. Car and trailer loads only, with Japanese beetle certificate.

	Each
Taxus capitata (Upright Yew)	
3 to 3 1/2 ft. ....	\$6.75
3 1/2 to 4 ft. ....	8.00
4 to 4 1/2 ft. ....	9.50
Larger sizes up to 9 ft.	
Taxus cuspidata (Spreading Yew)	
1 1/2 to 2 ft. ....	4.00
2 to 2 1/2 ft. ....	5.25
Taxus hicksii (Hicks Yew)	
2 to 2 1/2 ft. ....	4.00
2 1/2 to 3 ft. ....	5.00
Larger sizes up to 4 1/2 ft.	
Also Taxus hatfieldi, T. intermedia, T. Vermeulen, and others. Write for complete list.	

BULK'S NURSERIES

610 W. Montauk Hwy. Babylon, L. I. N. Y.

## EVERGREENS

CANADIAN HEMLOCK, TTT, bushy plants with fibrous roots.

	Each
2 1/2 to 3 ft. ....	\$ 4.00
3 to 3 1/2 ft. ....	5.00
3 1/2 to 4 ft. ....	6.00
4 to 4 1/2 ft. ....	7.50
4 1/2 to 5 ft. ....	9.00
5 to 5 1/2 ft. ....	10.50
5 1/2 to 6 ft. ....	12.00

Upright Yew (Taxus capitata). These are fine, well-filled plants. TTT. Each

2 1/2 to 3 ft. .... \$ 7.50

3 to 3 1/2 ft. .... 8.50

3 1/2 to 4 ft. .... 10.00

4 to 4 1/2 ft. .... 11.50

No boxing. Prices F.O.B. Terre Haute.

Net cash.

HAAS HOME NURSERIES

29th and Poplar Sts.

Terre Haute, Ind.

## FIELD-GROWN JUNIPER LINERS

	Per 100
Andorra Juniper, 1-yr., 8 to 12 ins. ....	\$12.00
English Juniper, 1-yr., 8 to 12 ins. ....	12.00
Juniperus fastigiata, 1-yr., 8 to 12 ins. ....	12.00
Hetz Juniper, 1-yr., 8 to 12 ins. ....	12.00
Hetz Juniper, 2-yr., T. 8 to 12 ins. ....	17.50
Hetz Juniper, 2-yr., T. 12 to 15 ins. ....	20.00
Pfitzer Juniper, 2-yr., 8 to 12 ins. ....	27.50
Savin Juniper, 1-yr., 8 to 12 ins. ....	12.00
Savin Juniper, 2-yr., T. 8 to 12 ins. ....	15.00
Von Ehr Juniper, 1-yr., 8 to 12 ins. ....	12.00
Waukegan Juniper, 1-yr., 8 to 12 ins. ....	12.00

ATHENS NURSERY CO.

Athens, Ala.

## SEEDLINGS

BIOTA ORIENTALIS, 2-yr., bed-grown in soils prepared to produce fibrous root systems.

2-yr., 10 to 14 ins., \$30.00 per 1000;  
1-yr., 3 to 5 ins., \$15.00 per 1000.  
These are packed to reach you in first-class condition.

SOUTHERN NURSERY

Rt. 7, Box 254A Oklahoma City, Okla.

## STOCK FOR SALE, B&amp;B

Juniperus Hetzi, 24 to 30 ins.; 30 to 36 ins.  
Irish Juniper, 3 to 4 ft.  
Pfitzer Juniper, 24 to 36 ins.; 36 to 36 ins.  
Spiny Greek Juniper, 24 to 30 ins.; 30 to 36 ins.

American Arborvitae, 30 to 36 ins.; 3 to 4 ft.

Andorra Juniper, 30 to 36 ins.

LEONARD'S NURSERY

406 N. Locust St. Onarga, Ill.

## WHITE SPRUCE FOR LANDSCAPING.

## CHOICE, BUSHY SPECIMENS.

HALLEI AND BURLAPPED.

24 to 36 ins., \$1.35 each.

18 to 24 ins., 90c each.

## HILLCREST NURSERY

Greensboro Bend, Vt.

## EVERGREENS

650 SPINY GREEK JUNIPER.

24 to 36 ins., B&amp;B. .... \$1.00

500 NANDINAS, 24 to 36 ins.,

in gal. cans. .... 1.00

500 NANDINAS, 24 to 36 ins., B&amp;B. .... 1.15

200 ENGLISH BOXWOOD, 8 to 12 ins., 2.90

1500 BUXUS SEMPERVIRENS

(Boxwood), 30 to 36 ins., B&amp;B. .... 1.15

FOWLER'S NURSERY, MARIETTA, GA.

## HEAVY ROOTED CUTTINGS

Each, per 100 Per 1000

Taxus cuspidata, 8 to 9 ins. .... \$0.09 \$0.08

Juniperus communis depressa, 5 to 6 ins. .... .08 .07

Taxus cuspidata, liners, 2-yr., 9 to 10 ins. .... .22 .20

Cash with order, please.

NEIDEL'S NURSERY

Mid. Rt. 4 Oil City, Pa.

## SHEARED NORWAYS

Closing out large Evergreens.

Reasonable offer on grounds accepted.

500 extra quality, sheared Norway, 5 to 8 ft.

200 extra dense, sheared Am. Arborvitae, 5 to 7 ft.

Some nice Yews and Hemlocks.

## THE REPGLOE NURSERIES

1203 Prairie Ave. Goshen, Ind.

## EVERGREENS—Continued

5000 HEMLOCKS  
These plants are extra heavy, sheared 3 times annually and tailed out.  
3 1/2 to 4 ft. .... \$ 5.50  
4 to 4 1/2 ft. .... 6.50  
4 1/2 to 5 ft. .... 8.50  
5 to 6 ft. .... 12.00  
ROBERT L. WADE NURSERY  
71 Fitting Ave. Bellville, O.  
Phone 3471

JAPANESE BLACK PINE  
1-year seedlings ..... \$ 30.00 per 1000  
2-year seedlings ..... 60.00 per 1000  
3-year seedlings ..... 100.00 per 1000  
4-year transplants ..... 250.00 per 1000  
3 ft., B&B, \$3.00  
4 to 5 ft., B&B, \$5.00  
BAIER LUSTGARTEN NURSERIES  
Jericho Turnpike, Middle Island, L. I., N. Y.  
Tel: Yaphank 4-3444

TAXUS CAPITATA  
2-yr. seedlings, 3 to 5 ins.,  
packed to reach you in perfect condition.  
\$12.50 per 100, \$100.00 per 1000.  
10 per cent discount in lots of 25,000.  
Will ship now or book for spring.

NORTHUP'S NURSERY ..... Tonawanda, O.  
R. D. 1 Phone: Kingsville 40299

PFITZER JUNIPER  
Exceptionally nice  
15 to 18 ins. .... 1 to 4 5 to 24 25 up  
..... \$3.15 \$2.75 \$2.50  
18 to 24 ins. .... 3.65 3.25 3.00  
2 to 2 1/2 ft. .... 4.45 4.05 3.85  
2 1/2 to 3 ft. .... 5.45 5.05 ...  
BUNCH NURSERIES  
3500 Hulman St. Terre Haute, Ind.

PFITZER JUNIPERS, well filled.  
30 to 36 ins., B&B ..... \$3.00 each  
3 to 4 ft., B&B ..... 4.00 each  
NICK'S COMPACT PFITZER  
30 to 36 ins., B&B ..... \$3.50 each  
3 to 4 ft., B&B ..... 4.50 each  
WHITE FLOWERING DOGWOOD  
3 to 4 ft., X, B&B ..... \$1.75 each  
FIKE NURSERIES, Hopkinsville, Ky.

TAXUS CAPITATA  
Strong 2-year seedlings.  
Seed sown lightly.  
Plants grown with plenty of room in beds.  
\$15.00 per 100, \$125.00 per 1000.  
C. HOOGEENDOORN  
Turner Rd., Newport, R. I.

EVERGREENS  
Fall planting pays off with good stands  
and added growth. Write for our complete  
price list of liners, strong, well-established  
in 2 1/2 and 2 1/2-in. pots.  
T. G. OWEN & SON, INC.  
Columbus, Miss.

WELL-ROOTED CUTTINGS  
Per 100 Per 1000  
Hex crenata rotundifolia ..... \$5.00 \$40.00  
Ligustrum lucidum compactum 3.00 25.00  
COTTAGE HILL NURSERY  
Rt. 4, Box 130 Mobile, Ala.

NANDINA SEEDLINGS  
1-yr., 4 to 6 ins. .... \$ 5.00 per 100  
2-yr., 8 to 10 ins. .... 10.00 per 100  
3-yr., 12 to 15 ins. .... 15.00 per 100  
PINKSTON NURSERIES  
Parrott, Ga.

Junipers, Pfitzer and Hetzel glauca, cut-  
tings, 5 to 10 ins., heavy, rooted in Krum.  
\$10.00 per 100, \$85.00 per 1000, in lots of  
250 or more.  
Robinson Greenhouses, Robinson, Ill.

Colo. and Black Hills Spruce, 2 1/2 to 4 ft.;  
Mugho Pine, 12 to 24 ins.; Andorra Juniper,  
12 to 30 ins.; Juniperus scopulorum, 1 to 3  
ft. and other finished and lining-out stock.  
List free, Pequot Nurseries, Brainerd, Minn.

NANDINA PLANTS  
3 to 4 ins. high, bed-grown, \$30.00 per 1000.  
500 at 100 rate. Cash.  
KRONE'S FLOWER SHOP & NURSERY  
4221 Grand Ave. Fort Smith, Ark.

AUCUBA JAPONICA GREEN (FEMALE)  
TIP CUTTINGS,  
12c each, \$100.00 per 1000.  
JORDAN NURSERIES  
P. O. Box 130 Milledgeville, Ga.

## FRUIT AND NUT TREES

PEAR SEEDLINGS  
We have in surplus about 300,000 Pyrus  
Calleryana in fine, well-rooted seedlings that  
will be 1-year-old in the spring. Grown in  
sterilized soil, they will caliper a large per-  
cent in grafting size. We have our own seed  
bearing trees of selected stock. Would advise  
early booking.

WHITEROCK NURSERIES  
Dept. CN Crockett, Tex.  
2000 bearing-age Apples, mostly 1 to 2 1/2-  
in. cal., including Red and Yellow Delicious,  
Jonathan, Winesap, etc. Make us an offer  
loaded on your truck or dig yourself.  
Robinson Greenhouses, Robinson, Ill.

## 12,000 CHINESE CHESTNUT TREES

Well-branched, heavy caliber, 2 to 8 ft.  
Originate: Government selected, Hopi Prov-  
ince, China. Must be disposed of. See them  
if possible, and make us an offer.

NUT HILL NURSERY  
Box 247, R. D. 1 Halifax, Pa.

## GROUND COVERS

VINCA MINOR (PERIWINKLE)  
15 to 20-cane clumps, fresh dug, individu-  
ally made up, \$50.00 per 1000.  
Hall's Honeysuckle (Japonica Halliana),  
branched, \$45.00 per 1000.  
Pachysandra terminalis, 1-year, \$55.00 per  
1000.

H. C. WAUGH  
Rt. 1 Gallipolis, O.

PACHYSANDRA TERMINALIS — strong  
rooted cuttings, \$3.75 per 100, \$3.50 per 1000;  
\$32.50 for any order of 5000 or more.  
Prompt shipment. Beetle zone only.  
DUNWOODIE NURSERIES  
6 Smart Ave. Fonkera, N. Y.  
Phone: Yonkers 5-1473

PACHYSANDRA TERMINALIS  
Strong, 1-yr., field-grown, \$65.00 per 1000.  
HILLCREST GREENHOUSES, Franklin, Pa.

## HARDY PLANTS

## A WINNER

A PERENNIAL THAT BLOOMS  
ALL SUMMER.

Cut flowers from May until September,  
on wiry stems, 2 to 2 1/2 ft.  
Very hardy and drought resistant.

A variety of  
Heuchera (Coral Bells), coral-pink.  
Plant now.

Per 100 Per 1000  
Strong plants ..... \$15.00 \$130.00  
Strong single divisions ..... 12.00 100.00

F.O.B. Battle Creek. Minimum order, \$10.00.

VERONA GARDENS  
Rt. 5, Box 476 Battle Creek, Mich.

SNYDER'S  
PERENNIAL SPECIALTIES

Fall wholesale list.

Please refer to October 1 issue.

Over a column 1-yr., field-grown perennials.

Anemone Pulsatilla Carnations  
Aquilegia Delphinium Geums  
Iberis sempervirens and Purity  
New Phlox subulata  
Polyanthus Pyrethrums  
Trollius Violas  
and many other items.  
E. J. SNYDER, WEST MILTON, O.

HARDY FIELD-GROWN PERENNIALS  
Aquilegia, separate colors: Arabis, Artem-  
isia, Aubrietia, Campanula, Carnations,  
Chives, Delphinium Pacific Hybrids, 10 sepa-  
rate colors; Dianthus, Dicentra, Digitalis,  
Doronicum, Gaillardia, English Lavender,  
Liatris, Russell Lupines, Myosotis, Phlox  
subulata, 10 varieties; Primrose, Pyrethrums  
(Daisies), Shasta Daisy Esther Read, Se-  
dums, 10 varieties; Sweet Williams, Thymes,  
Trollius, Violas and Violets.

If you haven't received our list, send for  
it now. 100 more good varieties.  
All plants freshly dug for each order.  
Orders taken now for fall delivery.

Shipping date, now.  
GEORGE FRANK & SON,  
Penfield, N. Y.

HARDY PLANTS  
NOW IS THE TIME TO FIELD OUR  
LARGE 1-year, reset perennials for next  
spring's jumbo plants. Canterbury Bells, 3  
colors; Coreopsis Double New Gold; Korean  
Hybrid Mums; Foxgloves, 3 colors; Gail-  
lardia, Goblin or Burgundy; Hardy Pink  
red hybrids; Columbine, long-spurred; Pyre-  
thrums Roseum, mixed; Double Shasta Dai-  
sies, Diener's or G. Marconi, \$4.00 per 100.  
Minimum order, \$10.00. F.O.B. Chicago or  
San Diego.

R. S. HATCH & SONS  
2824 Granada Ave. San Diego 4, Calif.

## BLEEDING HEARTS

Dicentra spectabilis, whole root, Per 100  
3 to 5-eye ..... \$25.00  
Dicentra spectabilis, whole root,  
5 to 8-eye ..... 35.00  
Also Peonies and Day Lilies.  
Since 1915.

ROBINSON GARDENS  
Scotts, Mich.

NEW LYTTHRUM MORDENS GLEAM  
REDDEST YET.

Rooted cuttings, \$3.00 per 100.  
VERY HARDY.  
2 1/2-in. pots, \$15.00 per 100.

MONGILLO'S NURSERIES  
2721 Whitney Ave. Hamden, Conn.

GYPSOPHILA BRISTOL FAIRY.  
Plant this fall for blooms next summer.  
1-year, field-grown, grafted.

Per doz. Per 100 Per 1000  
\$5.50 \$35.00 \$300.00  
25 at 100 rate; 250 at 1000 rate.  
BLUE ACRE GARDENS  
David L. Guenther, Prop.  
Rt. 3, Box 292A Piqua, O.

HELLEBORUS NIGER  
(Christmas Rose)  
Our own grown.  
3-yr. transplants  
\$50.00 per 100.  
\$45.00 per 1000.  
C. HOOGEENDOORN  
Turner Rd. Newport, R. I.

HEMEROCALLIS, BARGAIN PRICES  
A. Pioneer, Dawn, Dr. Regel, Hankow,  
J. A. Crawford, Mrs. Wyman, Ophir, Rajah,  
Purple Waters, Sunny West, Mikado, Linda.  
\$1.50 per 10, \$12.00 per 100.  
Aladdin, Bagdad, Hyperion, Theron, Vesta,  
Serenade, \$2.00 per 10, \$15.00 per 100.  
HURLEY NURSERY, PAINESVILLE, O.

## HARDY PLANTS

We have a good selection of field-grown  
perennials this year, including 30,000 trans-  
planted Pacific Hybrid Delphinium, in named  
varieties. Be sure and write for our new  
list.

WALTERS GARDENS  
Rt. 2 Zeeland, Mich.

PACIFIC HYBRID DELPHINIUM  
Mixed colors. 100 1000  
1-yr., field-grown, heavy ..... \$12.50 \$100.00  
2-yr., field-grown, extra  
heavy, T. .... 22.50 200.00  
LOUIS COLAVECCHIO NURSERY  
1487 North Ridge Rd. Painesville, O.

BLEEDING HEART ROOTS  
Dicentra spectabilis, 4 to 6-eye, \$250.00 per  
1000 (250 roots at the 1000 price); 100, \$30.00;  
50, \$16.00; 25, \$8.50; 12, \$4.75.  
NEW ENGLAND BULB CO.  
Box 743 New London, Conn.

PERENNIALS  
New and standard kinds.  
New wholesale list now ready.  
CARROLL GARDENS  
Box 15 Westminster, Md.

HARDY FERNS (DORMANT ROOTS)  
Ostrich, Clayton, Lady and Maidenhair,  
\$10.00 per 100, \$75.00 per 1000.  
STRAND NURSERY CO.  
Taylors Falls, Minn.

America's Best Source  
for Hardy Plants is  
THE WAYSIDE GARDENS  
Mentor, Ohio  
Write for Trade List.

TEUCRIUM CHAMAEDRYS  
Per 100 Per 1000  
Strong, rooted cuttings ..... \$6.00 \$50.00  
PLANE VIEW NURSERY, Newport, R. I.

Pansies, perennials and rock plants in wide  
variety. Send for catalog.  
PITZONKA'S PANSY FARM & NURSERY  
Bristol, Pa.

WELLER'S BETTER PERENNIALS  
WELLER NURSERIES CO., Holland, Mich.  
Write for trade list.

Turn Stock into Dollars  
by Listing It in the Classified Ads  
of the American Nurseryman.

## HOLLY

## HOLLY

Well-rooted, cutting-grown liners out of  
3-in. pots.  
Hex cornuta rotunda ..... \$0.35  
Hex crenata convexa bullata ..... .17 1/2  
Hex crenata Helleri ..... .30  
Hex cornuta Burfordi ..... .15  
Hex opaca East Palatka ..... .30  
Hex Aquifolium, green ..... .25  
Hex Aquifolium, silver variegated ..... .45  
Packed 35 to a box. Minimum order 3 boxes.  
Cash with order, please. F.O.B. China, Calif.  
DESCANSO DISTRIBUTORS, INC.  
Wholesale Growers China, Calif.

HEX OPACA FEMINA  
(American Holly)  
Cut of quart cans.

8 to 10 ins. .... \$0.50  
10 to 12 ins. .... .55  
12 to 15 ins. .... .60  
PEACE & SON NURSERY  
Box 304 Siloam Springs, Ark.

OREGON ENGLISH HOLLIES  
Cut holly. General nursery stock.  
May we quote you?  
ALFRED TRUPEL  
11414 N. W. Cornell Rd. Portland, Ore.



## IVIES

BALTIC IVY	
Strong, clean, well-rooted stock.	
Per 100 Per 1000	
Rooted cuttings	\$ 6.00 \$55.00
2-in. pots	10.00 95.00
Can ship now or later. 25 per cent down to reserve.	

## STRATFORD GARDENS

Russell Breese Delaware, O.

## LINING-OUT STOCK

FALL 1955	SPRING 1956
LINING-OUT STOCK	
Per 100	Per 1000

3,500 Acer platanoides, 2-yr. T.	\$15.00	\$140.00
1,000 Ampelopsis Veitchii, 1-yr. seedlings	5.50	45.00
3,000 Ampelopsis Veitchii, 2-yr. T., F.R.	25.00	200.00
2,000 Ampelopsis Veitchii, 3-yr. T., F.R.	35.00	300.00
4,200 Azalea mollis, 2-yr. T.	25.00	200.00
5,000 Berberis Thunbergii, 3-yr. T., F.R.	25.00	200.00
10,000 Berberis Thunbergii atropurpurea, 3-yr. T., F.R., 15 to 18 ins.	30.00	250.00
5,000 Cotoneaster divaricata, 2-yr. T., F.R.	30.00	250.00
10,000 Cydonia japonica, 1-yr. seedlings	4.50	35.00
500 Cydonia japonica, 2-yr. T., F.R.	8.50	75.00
1,000 Ginkgo biloba, 2-yr. T., F.R.	18.00	170.00
700 Juniperus Hetzi, 2-yr. T., F.R.	40.00	350.00
500 Juniperus Pfitzeriana, 2-yr. T., F.R.	40.00	350.00
50,000 Pachysandra, 2-yr.	8.50	80.00
5,000 Pieris japonica, 1-yr. T.	10.00	90.00
3,000 Pieris japonica, 2-yr. T.	30.00	250.00
30,000 Rosa multiflora, seedlings, 2 to 3 mm.	2.50	18.00
10,000 Rosa multiflora, seedlings, 3 to 6 mm.	3.50	28.00
5,000 Rosa multiflora, grafting size	5.00	40.00
1,000 Rosa rugosa, mixed, 1-yr. seedlings	5.50	45.00
7,000 Rosa rugosa, mixed, 2-yr. T., F.R.	12.50	110.00
5,000 Rosa rugosa, mixed, 3-yr. T., F.R.	50.00	450.00
5,000 Thuja occidentalis, 3-yr. T., beds, heavy, 12 to 15 ins.	15.00	125.00
3,000 Tsuga canadensis, 2-yr. T., F.R., 4 to 8 ins.	25.00	200.00
1,000 Viburnum dilatatum, 2-yr. T., F.R.	25.00	200.00
2,500 Vinca minor, 3-in. pots, 1-yr. once transplanted, TT—twice transplanted, F.R.—field row.	15.00	140.00

## Boulevard Nurseries

Newport, R. I.

## LINING-OUT STOCK

## FOR IMMEDIATE SHIPMENT

Per 100	Per 1000
Abelia grandiflora, 1-yr. T.	\$15.00
Arborvitae Bouthii, 6 to 8 ins. X	22.50
Arborvitae Douglasii aurea, 6 to 8 ins. X	22.50
Arborvitae elegans, 8 to 10 ins. X	22.50
Arborvitae globosa, 6 to 8 ins. X	20.00
Arborvitae nana, 6 to 8 ins. X	25.00
Arborvitae nana, 8 to 10 ins. X	25.00
Arborvitae nana, 10 to 12 ins. X	25.00
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Arborvitae nana, 498 to 500 ins. X	25.00

ESHAM'S NURSERIES, MILLSBORO, DEL.

## ALPINE CURRANT

8000 3 to 6 ins. T.	80 each, per 1000
4000 6 to 12 ins. T.	120 each, per 1000

## RED WING NURSERY&lt;/

## LINING-OUT STOCK—Continued

SATISFACTION GUARANTEED FROM THESE FINE LINERS			
Per 100	6 to 8 ins.	12 ins.	18 ins.
Buxus Harlandi	\$10.00	\$15.00	...
Gardenia radicans	...	10.00	...
Gardenia stricta nana	...	10.00	...
Ilex Cassine angustifolia	...	15.00	...
Ilex crenata convexa	12.50	15.00	...
Ilex crenata microphylla	12.50	15.00	...
Ilex crenata rotundifolia	10.00	12.50	...
Ilex cornuta Burfordi	...	12.50	\$15.00
bed-grown liners	...	15.00	...
Ilex opaca femina	...	20.00	...
bed-grown liners	...	20.00	...
Ilex vomitoria femina	...	15.00	17.50
Ilex vomitoria femina	...	15.00	17.50
18 to 24 ins., \$20.00 per 100.	...	12.50	15.00
Osmanthus fragrans	...	12.50	15.00
Osmanthus Fortunei	...	12.50	15.00
Pyracantha crenato-serrata	...	12.50	15.00
Graberii, bed-grown	...	15.00	17.50
Pyracantha coccinea Lalandi	...	12.50	15.00
bed-grown liners	...	12.50	15.00
bed-grown liners	...	15.00	17.50
Write for our latest catalog listing other stock.	...	...	...

**COTTAGE HILL NURSERY**  
Rt. 4, Box 130 Mobile, Ala.

LINING-OUT STOCK  
Fall, 1955—Spring, 1956

Potted and transplanted stock under lath.	
Per 100	
Buxus sempervirens, 2 1/2-in. pots	\$17.50
Canadian Hemlock, 3-yr., T.	...
12 to 15 ins.	37.50
15 to 18 ins.	45.00
Cotoneaster divaricata, 2-in. pots	17.50
Cotoneaster Wilsoni, 2-in. pots	27.50
Cotoneaster Zabeli, 2-in. pots	17.50
Euonymus erectus, 2-in. pots	17.50
Pyracantha coccinea pauciflora, 2-in. pots	22.50
Pyracantha Royleana, 2-in. pots	22.50
Taxus cuspidata, 1-yr., 2-in. pots	17.50
1-yr., 2 1/2-in. pots	20.00
2-yr., 2 1/2-in. pots	22.50
3-yr., 2 1/2-in. pots	27.50
2-yr., T. 6 to 8 ins.	37.50
Taxus Hicksi, 1-yr., 2-in. pots	17.50
1-yr., 2 1/2-in. pots	20.00
2-yr., T. 6 to 8 ins.	37.50
We will be pleased to have you visit our nursery, located 25 miles west of Dayton, O., on Route 35.	
Order now for fall, 1955, and spring, 1956 delivery.	

**FLORAL GARDENS, EATON, O.**

1-YEAR BEDDED STOCK	
Per 100	
Ilex convexa	\$15.00
Ilex rotundifolia	15.00
2-YEAR BEDDED STOCK	
Juniperus Hetzi	20.00
Taxus cuspidata	20.00
Ilex convexa	20.00
Ilex rotundifolia	20.00
Azalea ponticum	20.00
Azalea mollis	20.00
Pyracantha Lalandi	20.00
Leucothoe Catesbaei	20.00
Viburnum lant. fr. s.	10.00
3-YEAR BEDDED STOCK	
Juniperus Hetzi	25.00
Taxus cuspidata	25.00
Euonymus radicans erecta	25.00
Euonymus vegetus	25.00
Leucothoe Catesbaei	30.00
Azalea ponticum	30.00
Azalea mollis	30.00
1-YEAR S., Mahonia Aquifolium	6.00

**MAILSTEDE BROS.**  
5323-5351 Wilson Mills Rd.  
Cleveland 24, O.

EXTRA-HEAVY LINING-OUT STOCK  
FROM FIELD BEDS

Per 100	
Taxus capitata, 3-yr., T.T. 10 to 12 ins.	\$50.00
Taxus capitata, 2-yr., T. 8 to 10 ins.	40.00
Taxus cuspidata, 3-yr., T.T. 10 to 12 ins.	45.00
Taxus cuspidata, 2-yr., T. 8 to 10 ins.	35.00
Taxus Browni, 2-yr., T. 8 to 10 ins.	45.00
Taxus Hicksi, 2-yr., T. 8 to 10 ins.	35.00
Cotoneaster divaricata, 2-yr., T.	...
12 to 15 ins.	25.00
Alpine Currant, 2-yr., T. 12 to 15 ins.	25.00
Euonymus vegetus, 2-yr., T. 10 to 12 ins.	35.00
Viburnum Opulus nanum, 2-yr., T.	...
10 to 12 ins.	30.00

**FRED P. STROHL'S NURSERY**  
1404 N. Anthony Blvd. Fort Wayne, Ind.

## LINING-OUT STOCK

Pfitzer Juniper, 4 to 6 ins.	\$0.06
Pfitzer Juniper, 2-yr. liners	.18
Pfitzer Juniper, 2 1/2-in. pots	...
(spring delivery)	...
Ilex Burfordi, rooted cuttings	.04
Ilex rotundifolia, rooted cuttings	.04
Ilex Burfordi, 2 1/2-in. pots	.12
Nandinas, 2 1/2-in. pots, 2-yr. plants	.10
Euonymus patens, rooted cuttings	.03
E. F. DuBois NURSERY, Huntsville, Ala.	...

IT WILL PAY YOU TO  
GET OUR LIST OF TOP-GRADE LINERS  
AS WELL AS FINISHED STOCK.  
THE COTTAGE GARDENS  
Lansing 17, Mich.

## PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.  
Per 100  
Rooted cuttings, stg. 1-yr., 4 to 6 ins. \$12.50  
2 1/2-in. pots, T. 8 to 10 ins., branched. 22.50  
3-in. pots, T.T. 8 to 10 ins., branched. 32.50  
PYRACANTHA KASAN, dwarfier form of above.

Rooted cuttings, stg. 1-yr., 4 to 6 ins. 12.50  
3-in. pots, T.T. 8 to 10 ins., branched. 32.50  
TEUCRIUM CHAMAEDRY'S  
Strong rooted cuttings, 3 to 4 ins. 7.50  
Immediate shipment. Free packing for cash.  
BABCOCK GARDENS

Rt. 3 Jamestown, N. Y.

**EVERGREEN EUONYMUS**  
In heavy advanced liners that will make up quickly in the field. Extra heavily rooted with bushy tops.

Per 100  
EUONYMUS NEWPORT, 12 to 5  
ins. T. \$38.00  
EUONYMUS ERECTUS, 12 to 15 ins. T. 35.00  
EUONYMUS VEGETUS, 8 to 10 ins. T. 35.00  
10 to 12 ins. T. 40.00  
25 at 100 rate (samples if you wish).  
Also have above varieties in landscape size.  
LINWORTH NURSERY  
57EE Godown Rd. Columbus 14, O.

## LINING-OUT STOCK

We have one of the best selections ever this fall as all material has been under constant irrigation. Please write for catalog and prices on following. Seedlings, 1 to 4 years old: Ginkgo, Cornus florida, Pinus Thunbergi, Picea excelsa, Abies concolor, Blue Douglas Fir, Canadian Hemlock, Carolina Hemlock, Tilia cordata, Gleditsia triacanthos, Chamaecyparis Lawsonia de Bonkoop.

**BAIER LUSTGARTEN NURSERIES**  
Jericho Turnpike, Middle Island, L. I., N. Y.  
Phone YAPhank 4-3444

## EVERGREEN LINERS

Per 100  
Junipers  
1500 Pfitzer, 4-yr., XX, heavy, sheared, 12 to 15 ins. \$55.00  
5000 Pfitzer, 3-yr., XX, 9 to 12 ins. 40.00  
300 Pfitzer Golden, 3-yr., XX, 8 to 10 ins. 35.00  
500 Andorra, 3-yr., XX, 9 to 12 ins. 35.00  
Deduct 10 per cent for shipment this fall or cash with order.

**DAMASCUS NURSERIES**  
Damascus, O.

## EVERGREEN LINERS

Please see our display ad in this issue.

## NAUGHER NURSERY

Chase, Ala.

## ROOTED CUTTINGS

6 to 10 ins.

from open and beds \$0.07

Ilex, Burfordi and rotundifolia .04

POTTED LINERS, 2 1/2-IN.

Pfitzer Juniper, 6 to 12 ins. .15

Ilex, Burfordi and rotundifolia, 6 to 10 ins. .12

J. G. TSCHINKEL

115 N. Plymouth Huntsville, Ala.

## FINER LINERS

Our new catalog is now available and contains 21 pages of the better varieties of hardy ornamentals for fall and spring. Ask for your free copy today, using your letterhead, please.

**JOHN VERMEULEN & SON, INC.**

Neshanic Station, N. J.

## LINING-OUT STOCK

Fall planting pays off with good stands and added growth. Write for our complete price list of liners, strong, well-established in 2 1/2 and 2 1/2-in. pots.

T. G. OWEN & SON, INC.

Columbus, Miss.

## LINING-OUT STOCK

1-year

Bed-grown, 2-year 250.00 per 1000

Field-grown, 3-year, bushy 75.00 per 100

**DIRKMAAT AZALEA FARM**

516 Stevens Ave. Ridgewood, N. J.

Sell Stock Quickly and Easily with American Nurseryman Classified Ads.

## MAGNOLIAS

**MAGNOLIAS**

Liners: Nigra, Soulangiana, Illiflora.

8 to 12 ins. \$25.00 per 100

12 to 18 ins. 30.00 per 100

B&B or bare-root: Nigra, Soulangiana.

2 to 3 ft. \$1.30 each

3 to 4 ft. 1.60 each

No extra charge for packing liners and bare-root plants. Add \$1.00 per plant for B&B plants that have to be crated for shipping.

Write us about truck load lots F.O.B. our nurseries.

**FLOWERWOOD NURSERY, INC.**

Rt. 1, Box 130 Mobile, Ala.

## ORIENTAL MAGNOLIAS

Magnolias, soulangeana and soulangeana nigra, bed-grown.

Per 100	
8 to 12 ins.	\$25.00
12 to 18 ins.	30.00
18 to 24 ins.	35.00
2 to 3 ft.	45.00

**WELCH BROS. NURSERY**

Wilmer, Ala.

## PACHYSANDRAS

PACHYSANDRAS	
100	1000
1-year, field-grown	\$ 3.50 \$30.00
2-year, field-grown	6.00 50.00
2 1/2-in. pot-grown	10.00 90.00

**HANSEN BROS. NURSERIES, INC.**

Narberth, Pa.

(Formerly Hugh B. Barclay)

## PANSIES

**MICHIGAN-GROWN PANSY PLANTS**

Ready now, over 3 million Pansy and Sweet William plants; also complete list of hardy perennials. Write for copy.

**HOWARD STREET PANSY GARDENS**

Kalamazoo 99, Mich.

## PEONIES

## PEONIES

Strong 3 to 5-eye divisions from young plants. Delivery now. Packing free for cash with order, otherwise at cost.

5 of a variety at 10 rate; 25 of a variety at 100 rate; 250 of a variety at the 1000 rate.

10 100 1000

Baroness Schroeder.

flash-pink \$5.00 \$45.00 \$400

Canari, sulphur-white 4.00 35.00 300

Duch. de Nemours.

ivory-white 4.50 40.00 350

Duch. d'Orleans, soft pink. 3.90 28.00 250

Due de Wellington, pure wh. 3.50 30.00 280

Eduis Superba, deep pink. 3.00 28.00 250

Felix Crousse, ruby-red 4.50 40.00 350

Festiva Maxima, white. 4.00 35.00 325

Francis Ortegat, crimson 3.50 30.00 280

Karl Rosefield, dk. crimson 4.50 40.00 375

Lillian Wild, flesh to white 10.00 75.00 ...

Lord Kitchener, deep red 6.00 50.00 475

Mary Brand, crimson 5.50 50.00 ...

Mme. de Verneville, white. 4.00 35.00 325

Mona, Jules Elie, pink 5.00 45.00 350

Officialis rubra, early red 6.00 50.00 400

Ozark Beauty, late deep pk. 6.00 50.00 450

Queen Emma, silvery pink 4.00 35.00 300

Queen Victoria, white 3.50 30.00 280

Sarah Bernhardt, light pk. 4.50 40.00 375

Mixed Peonies, grown mixed 3.00 25.00 225

White Peonies, not named 3.00 27.50 250

Red Peonies, not named 3.00 27.50 250

## PEONY LINERS

2 to 3-eye divisions, 25 per cent off the 3 to 5-eye price; 1 to 2-eye divisions, 50 per cent off the 3 to 5-eye price.

**SARCOXIE NURSERIES PEONY FIELDS**

Wild Bros. Nursery Co.

Phone 43 Sarcoxie, Mo.

## PEONIES

We have grown Peonies for 30 years, and have selected all good cut-flower varieties; true to name and rugged.

We are offering them in clumps that will divide to about 8 or more standard plants. This stock was originally purchased from reliable growers. Minimum order 10 clumps; \$0 per cent with order.

variety and description Per clump

Eduis Superba, early deep pink \$1.00

Duchesse d'Orleans, midseason, tall, deep pink .75

Mona, Jules Elie, midseason, shell-pink, very large 1.50

Delicissima, midseason, delicate shell-pink .75

Modeste Guerin, midseason, tall, deep pink, very good 1.00

Venus, midseason, delicate shell-pink 1.50

Mr. L. Van Leeuwen, late, dark pink, very good 2.50

Mme. Emile Calot, midseason, flesh color 1.00

Marquis C. Lagergren, late, fine red 1.00

Festiva Maxima, early, fine, large white. 1.00

Felix Crousse, late, brilliant red 1.25

Livingstone, late, lilac-rose 1.25

Grover Cleveland, late, dark crimson 1.25

Dr. Barnaby, late, brilliant red 1.75

Mignon, late, tall shell-pink 1.00

**ROUBUSH GARDENS,**

4331 Needmore Rd. Dayton 4, O.

YOU ARE "SURE" WITH  
COTTAGE GARDENS PEONIES

Ask for list of Peonies including Tree Peonies

THE COTTAGE GARDENS  
LANSING 17, MICH.

## PEONY MONS. JULES ELIE

One of the finest for cut flowers. Generous divisions, from 3-year plants, \$37.50 per 100.

\$25.00 per 1000.

**LITTLEFORD NURSERIES, Vincennes, Ind.**

## MAY-FLOWERING PEONIES

Officialis rubra plena, double red; Officialis rosea plena, double pink; Officialis alba plena, double white, \$400.00 per 1000 (250 roots at 1000 price), \$42.00 per 100, \$22.00 per 50, \$11.50 per 25. Recommended for planting in paper pots to sell as a spring plant.

Peonies, sinensis, Adolphe Rousseau, deep red; Albert Crousse, light rose-pink; Edulis Superba, early pink; Felix Crousse, fine red; Festiva maxima, deep red; Karl Rosefield, deep red; Mme. Jules Dessert light pink, 3 to 5-eye roots, \$300.00 per 1000 (250 roots at 1000 price), \$35.00 per 100, \$18.50 per 50, \$9.75 per 25.

SPECIAL: 100 roots, 10 each of 10 varieties, labeled, for only \$35.00.

## NEW ENGLAND BULB CO.

Box 743 New London, Conn.

## HIGH-RATED PEONIES

The best in their color class.

Myrtle Gentry, light pink.....\$0.60  
Nancy Dolman, huge deep pink......50  
Longfellow, cream......50  
Hansina Brand, flesh......70  
Mrs. A. M. Brand, white......70  
Philippe Riviere, best red......65  
Mrs. J. V. Edlund, creamy-white......70  
Mary Brand, red......45  
Ella Christiansen, huge pink......50  
Richard Carvel, early red......50  
5 each of the above (actual value \$29.00), all properly labeled, for \$25.00. 50 strong 3 to 5-eye divisions from young stock. It costs but little more to grow the best. Minimum order \$5.00.

## EAGLE GARDENS

Box 254 Eagle Grove, Ia.

## PEONIES

Strong, healthy 3 to 5-eye divisions from young plants. 10 100  
Karl Rosefield, deep red.....\$3.50 \$25.00  
Festiva Maxima, white......3.50 25.00  
Auguste Dessert, pink......3.50 25.00  
Mons. Jules Elie, pink......3.50 25.00  
Baroness Schroeder, white......3.50 30.00  
Walter Faxon, salmon......3.50 30.00  
Sarah Bernhardt, pink......3.50 30.00  
Le Cygne, best white......5.50 50.00  
100 1000

Light grade, 2 to 3-eye divisions, in separate colors, red, white and pink.....\$17.00 \$150.00

## THE KRIDER NURSERIES, INC.

Middlebury, Ind.

## PEONIES

Brand's Magnificent, red.....\$0.50 \$0.45  
Richard Carvel, red......60 .55  
Martha Bulloch, pink......40 .35  
Mons. Jules Elie, pink......40 .35  
Phyllis Kelway, pink......50 .45  
Sarah Bernhardt, pink......40 .35  
Red and Pink, to color......25 .20  
3 to 5-eye divisions. Cash, free packing.

## WHEELOCK WILSON NURSERY

Marshalltown, Ia.

## TREE PEONIES

1-year grafts of named varieties, \$15.00 per 10, \$125.00 per 100, \$1100.00 per 1000. White, pink, red and purple. Trade list. ATHA NURSERY, WEST LIBERTY, O.

## PHLOX

PHLOX SUBULATA (Creeping Phlox)  
Admiration, dainty pink with white eye  
Alba, pure white flowers  
Astro, deep orchid-rose  
Blue Hills, attractive pale blue  
Butterfly, lilac bluish with purple eye  
Crimson Beauty, showy cyclamen-red  
Sensation, pure pink with red eye.

Transplants from field rows, \$9.00 per 100, \$5.00 per 1000, prepaid.

Linens, \$5.00 per 100, \$45.00 per 1000, prepaid.

250 or more of a variety at 1000 rate. Properly moss packed, labeled and shipped transportation prepaid by us. Cash, please.

## TANGLEWOOD FARM

Box 336-N Clinton, S. C.

## HARDY PHLOX

Our new list on Hardy Phlox and Creeping Phlox has been mailed. If you didn't get your copy, please write for it at once. WALTERS GARDENS

Rt. 2 Zeeland, Mich.

## PHLOX

If interested in Phlox and other perennials, please send for list.

## HENRY LE POIRE

Rt. 2 Zeeland, Mich.

## MARVIN HOEZE

GROWER OF HARDY PHLOX.

## WRITE FOR PRICE LIST

Rt. 2 Lynden, Wash.

## RHODODENDRONS

RHODODENDRON HYBRIDS  
1-year, field-grown grafted plants imported from Holland in the spring. \$75.00 per 100, \$350.00 per 500, \$650.00 per 1000 lot. List of varieties on demand.

VERKADE'S NURSERIES, Wayne, N. J.

## RHODODENDRON MAXIMUM

Nursery-grown and collected, 3 to 7 ft. high. Well-shaped, symmetrical plants. CURTIS NURSERIES, INC. Callicoon, N. Y.

Nursery-grown hybrid Rhododendrons, landscaping sizes. Parmentier's Roses, Bayport, L. I., N. Y. Telephone—Bayport 8-0811.

## ROSEBUSHES

## ROSEBUSHES

## 2-YEAR PLANTS

Grown, graded and packed to perfection. 246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND BOOK YOUR REQUIREMENTS NOW!

## ROSEMONT NURSERIES

D. L. Thompson, Owner Dept. AN Tyler, Tex.

## THORNY ROSA MULTIFLORA

Order for fall or spring delivery  
2 to 3 mm. caliper.....\$10.00 per 1000  
3 to 6 mm. caliper......16.00 per 1000  
6 to 12 mm. caliper......30.00 per 1000  
Bed-run, 2 mm. up......12.50 per 1000  
10 per cent off on orders of 10,000 or more. No packing charge. F.O.B. Vandalia, Ill. Also seed from thorny upright plants.

## MESTEL NURSERY

Route 2 Vandalia, Ill.

## MULTIFLORA ROSE UNDERSTOCK.

STRAIGHT SHANKED SEEDLINGS, EX-  
PERTLY GRADED, 4 TO 6 MM., \$27.50  
PER 1000; 2 TO 4 MM., \$17.50 PER 1000  
OR MORE. NO PACKING CHARGE. EX-  
CELLENT STORAGE FACILITIES. CAN  
DELIVER FALL, WINTER OR SPRING.  
FARM LANDSCAPE CO.

BOX 230 URBANA, ILL.

## ROSA MULTIFLORA JAPONICA

Thornless, the best for budding purposes;  
12-in. cuttings, \$2.00 per 100, \$7.00 per 1000;  
2-yr., grown from 12-in. cuttings, not grown  
from seeds; well-rooted, well-branched, 18  
to 24 ins., \$7.00 per 100, \$60.00 per 1000; 2 to  
3 ft., \$8.00 per 100, \$70.00 per 1000.  
FINGER LAKES NURSERIES  
Geneva, N. Y.

## FIELD-GROWN ROSEBUSHES

## FINEST QUALITY

Hybrid Teas, Floribundas,  
Polyanthas and Climbers.

Price and variety list on request.

## WELLS BROS. NURSERY

Box 625 Lindale, Tex.

ARP-GROWN ROSEBUSHES, beautifully  
packaged for display or direct-to-garden  
mail order and bare-root landscape. Serv-  
ice to nurseries for 34 years. Write for price  
list. ARP NURSERY CO., WHOLESALE  
GROWER, Box 3338-A, Tyler, Tex.

## SEEDS

MULTIFLORA ROSE SEED  
CLEAN, FRESHLY COLLECTED FROM  
THORNY UPRIGHT PLANTS. ADAPTED  
TO MIDWEST CLIMATE. READY BEGIN-  
NING OCTOBER, \$3.75 PER LB.; \$3.25, 10-  
LB. QUANTITIES. PRICES ON LARGER  
QUANTITIES ON REQUEST.

FARM LANDSCAPE CO.

BOX 230 URBANA, ILL.

MULTIFLORA ROSE SEEDS, picked from  
thorny, upright plants. Order now for fall  
delivery from 1955 crop.

1 to 5 lbs. ....\$3.50  
6 to 50 lbs. ....3.25  
50 lbs. or more .....3.00

## F.O.B.

FARMLAND IMPROVEMENT CO.

Box 124 Yorkville, Ill.

## SHRUBS AND TREES

## AZALEAS

Rose Bud, Herbert, Palestrina, Pink Pro-  
fusion, Good Times, Amoenia, Ethelwyn,  
Poukhanensia, Othello, Pink Pearl, Fedora,  
Sakata Red, Atlanta. Sizes 8 to 10 ins., 10  
to 12 ins., 12 to 15 ins. Priced by size range,  
80c to \$1.35.

The following in field sizes, range between  
12 and 15 ins. to 2 1/2 to 3 ft. Weigelia vari-  
egata, Weigelia Eva Rathke, Euonymus pa-  
tens, Euonymus japonicus, Euonymus patens  
variegatus, Thuja occidentalis globosa, Thuja  
occidentalis pyramidalis, Andorra Juniper,  
Juniperus glauca Hetzi, Juniperus hibernica,  
Chamaecyparis plumosa, Chamaecyparis plu-  
mosa aurea, Chamaecyparis pisifera aurea,  
Thuja aurea nana, Biota, Chamaecyparis Al-  
lumi. Prices range between 80c to \$1.75.  
In pots or cans, aged 2 and 3 years.  
Cotoneaster horizontalis, 90c and \$1.25.  
Pyracantha, orange berries, \$1.00 and \$1.50.  
Pyracantha, red berries, \$1.25 and \$1.75.  
Abelias, 75c and \$1.00.

All foregoing for delivery only at nursery.

WINDY ACRES NURSERY

Cross Keys Rd., P. O. Box 72 Pitman, N. J.

## SEEDLINGS, WHOLESALE LIST

All our seedlings are grown in open beds,  
with proper irrigation and fertilization. They  
have good caliper for height.

## ACER GINNALA (Amur Maple)

Best dwarf Maple; colorful, bright red  
fruits in summer while leaves are green.  
"The variety autumn foliage is as brilliant  
as any of the Maples. A good tree for speci-  
men or for screening purposes, requiring no  
care."—Wyman.

Size	Each	100 rate	1000 rate
6 to 12 ins.	.....	\$0.04	\$0.03
12 to 18 ins.	.....	.06	.04
18 to 24 ins.	.....	.09	.06

FRAXINUS LANCEOLATA (Green Ash)  
Strong, husky seedlings, grown under irri-  
gation. Excellent, fast-growing shade tree.  
6 to 12 ins. ....\$0.01 1/2 \$0.01  
12 to 18 ins. ....02 .01 1/2  
18 to 24 ins. ....03 .02 1/2

KOELREUTERIA PANICULATA  
(Golden Rain Tree)

Our best flowering tree seller. Chains of  
rich yellow bloom in mid-summer. Fern-  
like foliage. Splendid for grouping or spec-  
imen plants.  
6 to 12 ins. ....\$0.06 \$0.04  
12 to 18 ins. ....09 .07  
18 to 24 ins. ....12 .10

## JUNIPERUS VIRGINIANA

Seed from Winona, Minn. This is as close  
to a blight-resistant strain as we have  
found. Excellent crop this year, grown un-  
der irrigation.  
4 to 6 ins. ....\$0.03 \$0.02 1/2  
6 to 8 ins. ....05 .04  
12 to 18 ins. ....20 .17

## LIQUIDAMBAR STYRACIFLUA

(Sweet Gum)  
Our plants are grown from Ill. seed. If  
you have been having difficulty getting  
stands of Sweet Gum, you haven't been using  
our liners.

6 to 12 ins.	.....	\$0.05	\$0.04
12 to 18 ins.	.....	.07	.06
18 to 24 ins.	.....	.09	.08

## LONICERA MAACKI PODOCARPA

(Amur Honeysuckle)  
Best of Honeysuckles for fall display.  
Holds leaves longer than other shrub Honeys-  
uckles. Profuse bright red fruit still on  
plant at Thanksgiving. We find this to be  
an excellent seller for hedges and screens.

6 to 12 ins.	.....	\$0.04	\$0.03
12 to 18 ins.	.....	.07	.06
18 to 24 ins.	.....	.11	.09

## PHELODENDRON AMURENSE

(Amur Cork-Tree)  
12 to 18 ins. ....\$0.09 \$0.07  
18 to 24 ins. ....12 .10

## PINUS SYLVESTRIS (Scotch Pine)

Green Christmas tree type. Holds winter  
color much better than other strains of  
Scotch Pine. Excellent crop this year.  
4 to 6 ins. ....\$0.04 \$0.02 1/2  
6 to 8 ins. ....06 .04

## PSEUDOTSUGA TAXIFOLIA GLAUCA

(Douglas Fir)  
4 to 6 ins. ....\$0.04 \$0.03  
6 to 8 ins. ....06 .04

## PRUNUS AMERICANA

Exceptionally fine 2-year block. Straight,  
good, clean shank.  
No. 2, 2 1/2-ins. ....\$0.02 \$0.01 1/2  
No. 2, 2 1/2 to 3 1/2-ins. ....03 .02  
No. 1, 3 1/2 to 1 1/4-ins. ....04 .03  
1 1/4 to 7/8-in. ....05 .04  
7/8-in. up; 36-in. up .....07 .08

## PRUNUS SEROTINA (Black Cherry)

Truly an outstanding shade tree. Excel-  
lent characteristics.  
6 to 12 ins. ....\$0.02 \$0.01 1/2  
12 to 18 ins. ....03 .02 1/2  
18 to 24 ins. ....05 .04

## QUERCUS BOREALIS MAXIMA

(Northern Red Oak)  
Most rapid growing of all Oaks. Excellent  
tree for avenue plantings. Endures smoke.  
6 to 12 ins. ....\$0.06 \$0.05  
12 to 18 ins. ....09 .08

## TAXODIUM DISTICHUM (Cypress)

6 to 12 ins.	.....	\$0.09	\$0.07
12 to 18 ins.	.....	.15	.12
18 to 24 ins.	.....	.20	.16

## THUJA ORIENTALIS ROCHESTER STRAIN

Seed selected from plantation trees at Soil  
Conservation Nursery. One of the best plants  
for screening that we know of. Fast grower,  
can be trimmed to hedging size of 3 ft.

4 to 6 ins.	.....	\$0.04	\$0.03
6 to 8 ins.	.....	.08	.04
8 to 12 ins.	.....	.09	.07

## ULMUS PUMILA (Siberian or Chinese Elm)

6 to 12 ins.	.....	\$0.01 1/2 \$0.01
12 to 18 ins.	.....	.02 .01 1/2
18 to 24 ins.	.....	.03 .02

## VIBURNUM DENTATUM (Arrow-Wood)

One of the best Viburnums. Excellent au-  
tumn foliage. Good seller.  
12 to 18 ins. ....\$0.09 \$0.07  
18 to 24 ins. ....12 .09

NOTE! Please order in 25 multiples. 300  
or more take 1000 rate. Prices are F.O.B.  
Elisberry and include packing.

(See our display ad on ROSA MULTI-  
FLORA in this issue.)

## FORREST KEELING NURSERY

Elisberry, Mo.



## SHRUBS and TREES—Continued

POTTED GRAFTS, 1-YEAR	
All stock is well-rooted.	
Acer palmatum atropurpureum.....	Per 100 \$75.00
Fagus sylvatica atropurpureum.....	75.00
Pinus parviflora glauca.....	65.00
Pinus Cembra.....	65.00
Taxus canadensis Sargentii.....	65.00
Wistaria munita, lavender.....	80.00
Fagus sylvatica, grafting grade, \$12.00 per 100, \$100.00 per 1000.	
ROOTED CUTTINGS, BEDDED 1-YEAR	
Azalea Hino-Crimson.....	Per 100 Per 1000
Azalea Hinodegiri.....	\$15.00 \$125.00
Pieris japonica.....	15.00 125.00
Buxus sempervirens.....	10.00 90.00
Euonymus patens.....	10.00 90.00
Ilex bullata.....	10.00 90.00
Ilex crenata.....	10.00 90.00
Ilex rotundifolia.....	12.00 100.00
Juniper, Andorra.....	12.00 100.00
Juniper, communis aurea.....	12.00 100.00
Juniper, Hetz.....	12.00 100.00
Juniper, Hibernica.....	10.00 90.00
Juniper, Pfitzer.....	12.00 100.00
Juniper, stricta.....	12.00 100.00
Pachysandra.....	4.00 35.00
Pyracantha Lalandi, potted.....	15.00 125.00
Pyracantha Lalandi.....	8.00 60.00
Retinopora plumosa globosa.....	10.00 90.00
Taxus brevifolia.....	10.00 90.00
Taxus cuspidata.....	10.00 90.00
Taxus Hatfieldi.....	10.00 90.00
Taxus Hicksi.....	10.00 90.00
Taxus repandens.....	12.00 100.00
Thuja globosa compacta.....	10.00 90.00
Thuja globosa Woodwardi.....	10.00 90.00
Thuja Geo. Peabody.....	10.00 90.00
Thuja pyramidalis.....	10.00 90.00
Thuja nigra.....	10.00 90.00
Thuja Vervaeckiana.....	10.00 90.00
AZALEA HINODEGIRI, 2-YR., TRANS.	
Azalea Hino-Crimson.....	30.00 300.00
2-yr., trans.....	30.00 300.00
Thuja occidentalis.....	10.00 90.00
Picea excelsa.....	6.00 50.00
Picea pungens glauca.....	6.00 50.00
Picea, White Spruce.....	6.00 50.00
Taxus canadensis, 5 to 8 ins.....	10.00 90.00
Taxus canadensis, 8 to 10 ins.....	15.00 140.00
Taxus canadensis, 10 to 12 ins.....	20.00 190.00

1-YEAR SEEDLINGS	
Acer palmatum.....	4.00 35.00
Euonymus alatus compactus.....	5.00 40.00
Fagus sylvatica.....	7.00 65.00
Taxus capitata.....	5.00 40.00
Taxus capitata, transplants.....	5.00 40.00
2-YEAR SEEDLINGS	
Douglas Fir.....	4.00 35.00
Ilex crenata.....	4.00 35.00
Taxus capitata, 8 to 10 ins.....	7.00 60.00
Taxus capitata, transplants.....	7.00 60.00
5 to 6 ins.....	10.00 90.00
Thuja orientalis.....	3.50 30.00
Wistaria sinensis.....	5.00 40.00
Syringa vulgaris.....	3.50 30.00

3-YEAR SEEDLINGS	
Balsam Fir.....	4.00 35.00
Picea excelsa.....	3.50 25.00
Picea pungens glauca.....	4.00 35.00
Picea rubra, transplants.....	6.00 50.00
Picea, White Spruce.....	6.00 50.00
Pinus densiflora.....	5.00 40.00
Pinus Mugho Tyrolean, transplants.....	6.00 50.00
Pinus Strobus.....	3.50 25.00
Pinus sylvestris.....	3.50 25.00
Taxus canadensis.....	6.00 50.00
Taxus caroliniana, transplants.....	10.00 90.00

VAN DINE NURSERY  
Berdan Ave., Breakness, N. J.

TOP-GRADE LINERS	
EXTRA HEAVY BEDDED PLANTS	
Each, per 100	
Abelia Edward Goucher, 2-yr.....	\$0.20
Acer palmatum atropurpureum, 2-yr., br.....	.50
True red, from layers.....	.07
Berberis Thunbergi, 2-yr.....	.55
Cornus florida rubra, 2-yr. grafts.....	.45
Cornus florida rubra, 1-yr. grafts.....	.20
Ilex convexa (bullata), 2-yr.....	.15
Ilex convexa (bullata), 1-yr.....	.15
Ilex crenata, 2-yr.....	.15
Ilex crenata, 1-yr.....	.15
Ilex opaca femina, 3-yr.....	.65
Mahonia aquifolia, 2-yr.....	.15
Taxus brevifolia nana, 2-yr.....	.30
Taxus brevifolia nana, 1-yr.....	.25
Taxus capitata, 2-yr.....	.20
Taxus cuspidata, 2-yr.....	.20
Taxus cuspidata, 1-yr.....	.15
Taxus Hatfieldi, 2-yr.....	.25
Taxus Hicksi, 2-yr.....	.20
Taxus Hicksi, 1-yr.....	.15
Thuja globosa, 2-yr.....	.20
Thuja pyramidalis, 2-yr.....	.20

No less than 50 of one variety sold.  
THE MURGLAS CORPORATION  
formerly  
Thomas R. Mehan Co., Inc.  
Dresher, Pa.

200 SCOTCH PINES, 8 to 12 ft.	
25 Pyramidal Arborvitae, 7 to 10 ft.	
40 Hops Flowering Crab, 5 to 8 ft.	
40 Almy Flowering Crab, 5 to 8 ft.	
20 Pfitzer Juniper (sheared apicemans), 5 to 6 ft.	
40 Viburnum (Lantana), 4 to 6 ft.	
1000 Berberis mentorensis, 18 to 24 ins.	
A. H. ELMAN'S EVERGREEN NURSERY	
U. S. Rt. 24	
Phone Waterville 3721	

## SEEDLINGS, TRANSPLANTS

	Per 100	Per 1000
<b>Taxus capitata</b>		
2-yr., 3 to 6 ins. ....	\$10.00	\$90.00
<b>Austrian Pine</b>		
2-yr., 3 to 6 ins. ....	3.50	25.00
3-yr., 8 to 12 ins. ....	5.00	35.00
4-yr., 12 to 24 ins. ....	8.00	50.00
T., 6 to 12 ins. ....	8.00	60.00
T., 12 to 18 ins. ....	12.00	75.00
<b>Scotch Pine</b>		
2-yr., 3 to 6 ins. ....	3.50	25.00
T., 4 to 8 ins. ....	6.00	50.00
<b>Mugho Pine</b>		
2-yr., 1 to 3 ins. ....	4.00	30.00
<b>Ponderosa Pine</b>		
T., 8 to 15 ins. ....	5.00	40.00
<b>Black Hills Spruce</b>		
T., 8 to 12 ins. ....	25.00	
<b>Colorado Spruce</b>		
2-yr., 1 to 3 ins. ....	3.50	20.00
3-yr., 3 to 8 ins. ....	5.00	40.00
4-yr., 6 to 8 ins. ....	6.00	50.00
T., 4 to 8 ins. ....	10.00	80.00
<b>Engelmann Spruce</b>		
2-yr., 1 to 3 ins. ....	3.50	25.00
<b>Norway Spruce</b>		
2-yr., 3 to 6 ins. ....	3.50	20.00
5000 or more graded, \$15.00 per 1000.		
5000 or more run of beds, \$12.50 per 1000.		
3-yr., 6 to 12 ins. ....	5.00	30.00
4-yr., 10 to 15 ins. ....	6.00	40.00
T., 6 to 12 ins. ....	8.00	60.00
T., 12 to 15 ins. ....	15.00	120.00
<b>White Spruce</b>		
T., 6 to 12 ins. ....	8.00	60.00
T., 12 to 18 ins. ....	15.00	120.00
<b>Douglas Fir</b>		
2-yr., 3 to 6 ins. ....	4.00	25.00
T., 4 to 8 ins. ....	10.00	80.00
T., 12 to 18 ins. ....	35.00	...
<b>Larch, European</b>		
2-yr., 8 to 12 ins. ....	3.50	25.00
<b>Thuja, American</b>		
2-yr., 2 to 4 ins. ....	3.50	20.00
<b>Hemlock, Canadian</b>		
2-yr., run of beds ....	5.00	35.00
2-yr., graded, 4 to 8 ins. ....	8.00	50.00
<b>Privet, Regels, seedlings</b>		
2-yr., 12 to 18 ins. ....	10.00	60.00
3-yr., 15 to 24 ins. ....	12.00	80.00
T., 12 to 24 ins. ....	15.00	120.00
<b>Viburnum Lantana</b>		
seedlings, 12 to 18 ins., grafting size ....	8.00	75.00
T., 6 to 10 ins. ....	12.00	
T., 12 to 18 ins. ....	15.00	
<b>Acer palmatum</b>		
T., 4 to 8 ins. ....	12.00	
T., 8 to 12 ins. ....	15.00	
Complete catalog on request.		

HEASLEY'S NURSERIES  
Freepoint Rd., Butler, Pa.

SURPLUS, FALL 1955	
200 Arctic Willow, 24 to 30 ins.....	\$ 30.00
500 Cotoneaster acutifolia, 3 to 4 ft.....	40.00
200 Cotoneaster acutifolia, 2 to 3 ft.....	35.00
600 Euonymus europaeus, 3 to 4 ft.....	45.00
200 Euonymus europaeus, 2 to 3 ft.....	40.00
700 Euonymus comp., 24 to 30 ins.....	120.00
200 Euonymus comp., 18 to 24 ins.....	80.00
700 Lonicera fragrantissima, 3 to 4 ft.....	45.00
1000 Lonicera Zabeli, 3 to 4 ft.....	45.00
400 Lonicera tatarica, pink, 4 to 5 ft.....	50.00
400 Lonicera tatarica, pink, 3 to 4 ft.....	45.00
700 Philadelphus virginialis, 3 to 4 ft.....	60.00
400 Philadelphus virginialis, 2 to 3 ft.....	50.00
500 Lodense Privet, 12 to 15 ins.....	15.00
2000 A. R. Privet, heavy, 24 to 30 ins.....	50.00
500 Prunus cistena, 2 to 3 ft.....	70.00
100 Prunus tomentosa, 3 to 4 ft.....	55.00
500 Ribes alpinum, 18 to 24 ins.....	60.00
500 Ribes alpinum, 15 to 18 ins.....	50.00
200 Ribes alpinum, 12 to 15 ins.....	40.00
500 Spiraea Froebelii, 18 to 24 ins.....	25.00
150 Spiraea Vanhouttei, 4 to 5 ft.....	40.00
500 Spiraea Vanhouttei, 3 to 4 ft.....	40.00
200 Spiraea Vanhouttei, 2 to 3 ft.....	35.00
150 Viburnum Lantana, 4 to 5 ft.....	60.00

Evergreen liners ready for the field.  
Twice transplanted.  
200 Arborvitae, Woodward globe, 9 to 12 ins.....\$40.00  
900 Arborvitae, Woodward globe, 6 to 8 ins.....28.00  
700 Arborvitae pyramidalis, 10 to 15.....45.00  
500 Arborvitae Wareana, 8 to 10 ins.....40.00  
200 Juniper, Andorra, 10 to 12 ins.....35.00  
350 Juniper, Andorra, 6 to 9 ins.....30.00  
500 Juniper, Hetz, 12 to 15 ins.....55.00  
400 Juniper, Hetz, 9 to 12 ins.....35.00  
1500 Juniper, Pfitzer, 6 to 9 ins.....35.00  
500 Juniper, Savin, 6 to 9 ins.....35.00  
200 Taxus Hicksi, 12 to 15 ins.....50.00  
700 Taxus Hicksi, 6 to 10 ins.....35.00  
Minimum order 100 each.

FANCHER'S NURSERY, Sturtevant, Wis.

HARD MAPLE (ACER SACCHARUM)	
Collected	
	Per 1000
1 to 2 ft.....	\$ 55.00
2 to 3 ft.....	90.00
3 to 4 ft.....	120.00
4 to 5 ft.....	150.00
5 to 6 ft.....	200.00
1 to 3 ft.....	\$45.00
3 to 5 ft.....	90.00

Fall delivery.  
F.O.B. Red Wing. Packing at cost.  
RED WING NURSERY  
Red Wing, Minn.

NURSERY LINERS GROWN IN ZERO CLIMATE NEAR CANADIAN BORDER  
ADD 10 PER CENT FOR LESS THAN 50. CASH OR BANK REFERENCE FIRST ORDER.  
100  
Pyramidal Arborvitae, field, TT, 6 to 8 ins.....\$ 25.00  
10 to 12 ins.....30.00  
15 to 18 ins.....85.00  
Globe Arborvitae, field, TT, 15 to 18.....100.00  
Cotoneaster, 1-yr., 8.....7.00  
T., 12 to 15 ins.....35.00  
T., 18 to 24 ins.....75.00  
field heavy, 3 to 4 ft.....135.00  
Forsythia Spring Glory, 3 to 4 ft.....60.00  
heavy, 5 to 7 ft.....90.00  
Chinese Elm, W. br. at, 6 to 8 ft.....125.00  
1 1/4 to 1 1/2 ft.....200.00  
Ginnala Maple, 3 to 4 ft., selected red.....100.00  
5 to 6 ft., selected red.....135.00  
Quince, red-flowering, 12 to 15 ins.....50.00  
Pyracantha, T., 12 to 15 ins.....50.00  
Large stock grown in the same area, not listed. We are not dealers, but growers.  
MAYHAN NURSERY, Verdale, Wash.

SHRUBS AND TREES	
	Per 100 Per 1000
Norway Maple, 1-yr.....	4.00 \$ 35.00
Red Barberry, 1-yr.....	4.00 35.00
4 to 6 ins.....	4.00 35.00
Kousa Dogwood, 3-yr. transplants, 18 to 24 ins.....	75.00 750.00
Pink Dogwood, 2-yr. grafts, 18 to 24 ins.....	125.00 1250.00
White Dogwood, 1-yr., 12 to 14 ins.....	6.00 50.00
Canadian Hemlock, 3-yr., transplants, 8 to 10 ins.....	12.00 100.00
10 to 12 ins.....	15.00 140.00
Andorra Juniper, 3-yr. trans., 14 to 16-in. spread.....	75.00 750.00
Japanese Pine, 2-yr., 6 to 8 ins.....	5.00 35.00
Scotch Pine, 2-yr., 4 to 8 ins.....	5.00 35.00
Norway Spruce, 2-yr., 4 to 6 ins.....	4.00 30.00
Immediate shipment. Free packing for cash.	
RUMMEL NURSERIES	
Pompton Plains 1, N. J.	

FLOWERING SHRUBS AND TREES	
(2-yr. cutbacks)	Per 1000
4100 Forsythia spect., 3 to 4 ft.....	\$250.00
3100 Forsythia spect., 2 to 3 ft.....	200.00
2000 Forsythia spect., 3-yr., hvy.....	300.00
5000 Calif. Privet, 2 to 3 ft.....	50.00
3000 Salix purpur. nana, 2 to 3 ft.....	165.00
5500 Salix purpur. nana, 18 to 24 ins.....	150.00
4000 Salix purpur. nana, 12 to 18 ins.....	125.00
800 Philadelphus Atlas, 2 to 2 1/2 ft.....	250.00
250 Phila. Innocence, 2 1/2 to 3 ft.....	300.00
1400 Phila. brachybotrys, 3 to 4 ft.....	250.00
3500 Phila. virginialis, 2 to 2 1/2 ft.....	150.00
850 Lonicera Zabeli, 2 1/2 to 3 ft.....	300.00
300 Lonicera Zabeli, 18 to 24 ins.....	200.00
250 Populus italica nigra, 5 to 6 ft.....	135.00
250 Populus italica nigra, 4 to 5 ft.....	125.00
200 Magnolia stellata, 2 to 2 1/2 ft.....	\$1.00
each, 2000 Cornus florida, 2 to 3 ft.....	\$50.00 per 100.

TERMS: Net. Packing at cost.  
ELAN MEMORIAL PARK NURSERY  
116 E. Front St. Berwick, Pa.

FALL DELIVERY	
Azalea mollis, 3-yr., br., 6 to 8 ins.....	\$0.35
altacarensis, 3-yr., 4 to 6 ins. br.....	.35
Clematis Ramona, 2-yr.; qt. cans.....	1.00
Cotoneaster humifusa, 2-yr., T.....	.35
Daphne cneorum, 2-in. pots.....	.20
Daphne odora, 2-in. pots.....	.25
Daphne odora, 3-in. pots.....	.45
Gentiana acaulis, 6 to 8-in. spread.....	1.00
Jun. tamaricifolia, 9 to 12 ins. 3-yr.....	.35
Moerheim Blue Spruce, 2-yr. grafts.....	1.75
Pernettya, mixed, 2-yr., 4 to 6 ins.....	.35
Pieris japonica, C.T., 4 to 6 ins. br.....	.35
rooted cuttings.....	.20
Viburnum burkwoodi, rooted cuttings.....	.15
burkwoodi, 3-in. pots.....	.35
Davidi, 1-yr. transplants.....	.35
Davidi, 4-in. pots.....	.65
Woodward Globe Arborvitae, 6 to 8 ins., 2-yr. transplants.....	.15
Cash with order, please.	
FOUR STAR NURSERY	
8215 238th St. W. Edmonds, Wash.	

CORNUS FLORIDA RUBRA	
Pink Dogwood from transplants.....	
5 to 6 ft., br., 2-yr.....	\$4.00
4 to 5 ft., br., 2-yr.....	3.00
3 to 4 ft., br., 2-yr.....	2.00
2 to 3 ft., br., 2-yr.....	1.25
3 to 4 ft., br., 1-yr.....	1.50
2 to 3 ft., br., 1-yr.....	1.00
18 to 24 ins. br., 1-yr.....	.75
CORNUS FLORIDA PLENA	
Double White Dogwood.....	
3 to 4 ft., br.....	1.75
2 to 3 ft., br.....	1.25
CORNUS FLORIDA	
White Dogwood.....	
4 to 5 ft., br.....	1.50
3 to 4 ft., br.....	1.00
2 to 3 ft., br.....	.50
Add 50c extra for B&B.	
CRIMSON DALE NURSERY	
Winchester, Tenn.	

ABELIA GRANDIFLORA  
2-yr. open field beds, cut back several times. \$50.00 per 1000.  
MOUNTVILLE NURSERIES, Mountville, Ga.

## SHRUBS AND TREES

Each, 100	1000
EUNYMUUS VEGETUS, 4 leaders and up, 2 yrs. in nursery row.	
10 to 12 ins., br.	\$0.50 \$0.45
12 to 15 ins., br.	.55 .50
15 to 18 ins., br.	.75 .70
8 to 10 ins., special 3 leaders.	.30 .35
PACHISTIMA CANBYI, 6 to 8 ins.	
18 to 24 ins.	\$0.50 \$0.45
24 to 30 ins.	.75 .65
Ask for our complete list of finished nursery stock. Also lines of <i>Ilex</i> reticulata, <i>Hetzi</i> , <i>convexa</i> , <i>Pieris Japonica</i> . True red Japanese Maples, <i>Azaleas</i> , <i>Palearina</i> , <i>Othello</i> , <i>Kathleen</i> , <i>Fedora</i> , <i>Aladdin</i> . Fine stock for our loose bottom one-gallon Nurseries.	
GERARD K. KLYN, INC., Mentor, O. Wholesale Rose Growers and Nurserymen	

## FIELD-GROWN LINERS

	Per 100
Berberis mentenensis, 2-yr., TT., field-grown, 6 to 9 ins.	\$15.00
Berberis mentenensis, 2-yr., TT., field-grown, 9 to 12 ins.	17.50
Cotoneaster divaricata, 2-yr., TT., field-grown, 15 to 18 ins.	15.00
Eunymus patens, 2-yr., TT., field-grown, 8 to 12 ins.	15.00
Gardenia Mystery, 2-yr., TT., field-grown, 12 to 15 ins.	15.00
Jasminum nudiflorum, 2-yr., TT., field-grown, 12 to 18 ins.	15.00
Laurocerasus caroliniana, 1-yr. (S), field-grown, 8 to 12 ins.	6.00
Viburnum Burkwoodi, 2-yr., TT., field-grown, 8 to 12 ins.	20.00
ATHENS NURSERY CO. Athens, Ala.	

## SHRUBS AND TREES

Row-run, \$30.00 per 1000.	
50,000 Amoor River Privet, 1-yr., rooted cuttings, all heavy, 6 to 9 ins., \$25.00 per 1000; row-run, 9 to 18 ins., \$30.00 per 1000; all 2 or more canes, 9 to 18 ins., \$35.00 per 1000.	
2000 Cornus sibirica, 24 to 36 ins., \$6.00 per 100, \$50.00 per 1000.	
2000 Itholum Privet, 3-yr., very heavy, 3 to 4 ft., 20c each.	
2000 English Privet, 3-yr., very heavy, 2 to 3 ft., 20c each.	
2000 Lombardy Poplar, 2 to 3 ft., 8c; 3 to 4 ft., 10c; 4 to 5 ft., 12c.	
Pfitzer Juniper, 18 to 24 ins., \$2.50; 24 to 30 ins., \$3.00; 30 to 36 ins., \$3.50.	
PAUL'S NURSERY	
R. D. 3      Phone: 32161      Shelby, O.	

## FALL DELIVERY

Each, 100	1000
EUNYMUUS VEGETUS Large-leaved winter creeper, 12 to 15 ins.	
18 to 24 ins.	\$0.90
DEUTZIA GRACILIS Slender Deutzia, 15 to 18 ins.	
18 to 24 ins.	.60
PHILADELPHUS AUREUS Golden Syringa, 15 to 18 ins.	
18 to 24 ins.	.90
2 to 3 ft.	1.00
PHILADELPHUS VIRGINALIS Double Mock-Orange, 18 to 24 ins.	
2 to 3 ft.	.35
3 to 4 ft.	.65
SPIRAEA ANTHONY WATERER 15 to 18 ins.	
18 to 24 ins.	.45
2 to 3 ft.	.55
FRENCH NURSERY CO., CLYDE, O.	

## VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a supply of Viburnum Carlesi seedlings. All these years we have not been able to buy any seed and still cannot, but can offer these seedlings because we have our own seed by this time. We offer the following for spring, 1955:	
Strong, 2-yr. seedlings	Per 100 Per 1000
4 to 6 ins.	\$15.00 \$125.00
6 to 8 ins.	20.00 175.00
8 to 12 ins.	30.00 250.00
Transplants, branched, mail-order size, 12 to 18 ins., \$75.00 per 100.	

## C. HOOGEBOORN

Turner Rd.	Newport, R. I.
SHRUBS AND TREES	
Acer palmatum, transplanted	
understock	\$10.00 \$ 85.00
Acer palmatum atropurpureum, 1-yr. seedlings, 6 to 8 ins.	15.00 125.00
Fagus sylvatica, 6 to 10-in. seedlings	8.50 75.00
Myrica pensylvanica, 1-yr. seedlings, 4 to 8 ins.	4.00 35.00
\$30.00 per 1000, lots of 5000 and over.	
Thuja orientalis, transplanted	
understock	7.50 65.00
Viburnum Wrightii, 6 to 8-in. seedlings	10.00 75.00
HESS' NURSERIES P. O. Box 788 Mountain View, N. J.	

## CORNUS FLORIDA

3 to 4 ft., \$1.00, B.R.; \$1.50, B&B; seedlings, 6-in., \$30.00 per 1000; 8-in., \$50.00 per 1000; 24 to 30 ins., \$100.00 per 1000.	
CORNUS RUBRA, 4 ft., nice head, \$5.00, B&B.	
BAIER LUSTGARTEN NURSERIES Jericho Turnpike, Middle Island, L. I., N. Y. Phone Yaphank 4-3444	

## SHRUBS AND TREES

Per 100	Per 1000
Magnolia grandiflora	
3 to 8 ins.	\$ 6.00 \$ 50.00
10 to 18 ins.	12.00 100.00
18 to 30 ins.	20.00 175.00
Cherry Laurel, 6 to 12 ins.	2.00 15.00
18 to 24 ins.	6.00 50.00
Yaupon Holly, 6 to 12 ins.	5.00 40.00
12 to 18 ins.	7.00 60.00
American Holly, 6 to 12 ins.	10.00 80.00
Ligustrum japonicum, 10 to 18 ins.	3.00 25.00

## Write for complete list.

## L. H. BUTTER NURSERY

Forest Hill, La.

## SURPLUS NURSERY STOCK

Priced to save you money.  
Junipers: Pfitzer, Hetz, Irish, Pollish, Von Ehrhorn, Ashford, Cannert, glauca, Keteleeri, Burkli; Hickory and cuspidata Yews; some capitata, Black Hills Spruce and many others. Several thousand large shrubs in variety, cut back and transplanted. Fine block of red Barberry, shade and ornamental trees. Send us your want list and let us quote you, or better still, come and pick your plants. Open 7 days week. Phone 955 day or night.

## SAPP'S NURSERY

P. O. Box 128 Mount Vernon, Ill.  
8 miles south of Mt. Vernon on highway 37.

## FIELD-GROWN STOCK

10	100
Ampelopsis Lowi, 2-yr., No. 1	\$7.50
Azalea mollis, mixed, BR., 3-yr., 9 to 12 ins.	4.50 \$42.50
Cornus elegantissima, var. 18 to 24 ins.	6.00
Deutzia carminea, 15 to 18 ins.	5.00
Eunymus radicans, 2-yr., 12 to 18 ins.	5.00
Kerria Japonica fl. pl., 18 to 24 ins.	5.00
Spiraea Japonica coccinea, 9 to 12 ins.	4.50
LOUIS COLAVECCHIO NURSERY 1487 North Ridge Rd. Painesville, O.	

## LILACS

10	100
French, O.R., mixed varieties only.	
2 to 3 ft.	\$0.70 \$0.60
3 to 4 ft.	.90 .80
4 to 5 ft.	1.25 1.15
Rothomagensis, 2 to 3 ft.	.45 .40
2 to 4 ft.	.50 .45
4 to 5 ft.	.70 .60
Beauty Bush, 2 to 3 ft.	.55 .50
2 to 4 ft.	.65 .60
4 to 5 ft.	.80 .75

## WHEELLOCK WILSON NURSERY

Packing at cost. Cash.  
Marshalltown, Ia.

## EVERGREENS, B&amp;B, ETC.

	Each
540 Andorra Juniper, 2 to 2½ ft. ....	\$2.50
300 Andorra Juniper, 2½ to 3 ft. ....	3.00
DOGWOOD, WHITE-FLOWERING	
1800 3 to 4 ft., well-branched .....	2.25
900 4 to 5 ft., heavy, well-branched ....	2.50
760 5 to 6 ft., heavy, well-branched ....	3.25
300 6 to 7 ft., heavy, well-branched ....	4.25
Above stock, well-trimmed, heavy and	
growing in finest balling soil. You all come	
and see us, but let us know you are coming.	
Bernard Wherry, Prop. Phone 186-J.	
WHERRY'S NURSERIES, St. Marys, W. Va.	

## MAGNOLIAS

Soulangiana, heavy 6 ft., B&B, \$7.50; heavy 5 ft., B&B, \$6.00; heavy 4 ft., B&B, \$5.00; heavy 3 ft., B&B, \$3.50; 2 to 3 ft., 3-year-old, in beds, \$1.50, B.R.; 18 to 24 ins., 2-year, in beds, \$1.00. Magnolia stellata, 3x3 ft., very heavy, B&B, \$4.50; 4x4 ft., very heavy, B&B, \$6.50; 5x5 ft., very heavy, \$8.50; 6 ft., very heavy, \$12.50. Also Magnolias, speciosa, nigra, Lennel, rustica rubra, parviflora and Alexandrina.	
BAIER LUSTGARTEN NURSERIES Jericho Turnpike, Middle Island, L. I., N. Y. Phone Yaphank 4-3444	

## For \$3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

## AT 35c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by October 14.

## AMERICAN NURSERYMAN

343 S. Dearborn St.

CHICAGO 4, ILL.

## ACER DASYCARPUM (SILVER MAPLE)

Per 100	Per 1000
6 to 12 ins., S.	\$ 1.25 \$ 8.00
12 to 18 ins., S.	2.00 12.50
12 to 18 ins., T., heavy	3.00 20.00
18 to 24 ins., T., heavy	3.25 30.00
4 to 6 ft., br.	35.00

## ULMUS PUMILA (Chinese Elm)

Per 100	Per 1000
6 to 12 ins., S.	\$1.00 \$ 8.00
12 to 18 ins., S.	1.50 12.50

## EDMOND L. BABCOCK NURSERY

52 West Ave. Danversville, N. Y.

## HEAVY ROOTED FIELD-GROWN LINERS

100	1000
Greek Juniper, 8 to 12 ins.	\$0.12 \$0.10
Hetz Juniper, 6 to 8 ins.	.17 1/2 .15
Savin Juniper, 6 to 12 ins.	.12 .10
Abellia, 8 to 12 ins.	.10 .07 1/2

## ALSO IN POTS

Burford Holly, 2 1/2-in. pots	.18 .15
B&B stock, general run nursery stock, get my prices. Will appreciate having you visit my nursery at Koloia Springs, Miss. Terms: Cash; 2 per cent discount, packing free.	
GRANT'S NURSERY, Koloia Springs, Miss.	

## SEEDLINGS AND TRANSPLANTS

Each, 100	1000
1000 Betula pendula, 3 to 6 ins., S.	\$0.03
500 Betula pendula, 6 to 12 ins., T.	.08
1000 Betula pendula, 12 to 24 ins., T.	.15 .12
100 Betula papyrifera, 5 to 6 ft., T.	.85 .70
150 Betula papyrifera, 6 to 7 ft., T.	1.00 .80
1000 Sorbus, Am., 6 to 12 ins., S.	.90
1000 Sorbus, American, 2 to 3 ft., T.	.17 .15
25 at 100 rate.	

## HAWTHORNE NURSERY

Box 95 Hawthorne, Wis.

## LINING-OUT STOCK

	Per 100
Deutzia gracilis, transplants, 8 to 12 ins., bushy	\$15.00
Eunonymus alatus, 8 to 10 ins.	20.00
Eunonymus alatus compactus, 8 to 10 ins.	20.00
Spiraea Anthony Waterer, transplants, 6 to 8 ins.	15.00
List of other liners ready September.	

## FLOWERING CRABS

40 varieties, best of the old and newer varieties. 1-yr. whips and branched. Also 3-yr. once transplanted, 6 to 8 ft. Descriptive booklet available.

## THUNDERCLOUD PURPLE-LEAVED PLUM

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1/2 to 1-in. ....	6.00	\$50.00	
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SAGE			
Holt's Mammoth, 1-yr. ....	\$0.10	7.50	....
HORSERADISH			
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WALNUT Thos. Black			
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White Pine) 4 to 6 ft.  
66 Pseudotsuga taxifolia  
(Douglas Fir) 6 to 8 ft.  
5 Prunus Sargentii (Flowering  
Cherry) 5 to 6 ft.  
78 Tilia vulgaris (Eur.  
Linden Tree) 8 to 10 ft.  
3 Equisetum hyemale (Horsetail)  
(2-yr. stock)  
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8 Rhus typhina (Staghorn  
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No. 5, 14x16x2 3/4	per 100	21.50
No. 6, 14x16x3 3/4	per 100	25.50
No. 7, 15x22x2 3/4	per 100	28.50
No. 8, 15x22x3 3/4	per 100	33.00
No. 9, 11 1/4x22x2 3/4	per 100	32.00
No. 10, 11 1/4x22x3 3/4	per 100	26.75
No. 11, 14x16x5	per 100	30.00
No. 12, 5x11x5	per 100	16.00
No. 13, 5x16x5	per 100	21.50
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9 x 6	ins.	77.50	85.00	85.00	92.50
9 x 9	ins.	85.00	92.50	95.00	102.50
10 1/2 x 6 1/2	ins.	85.00	92.50	95.00	102.50
10 x 9	ins.	92.50	100.00	107.50	115.00
11 x 7	ins.	85.00	92.50	100.00	107.50
12 x 7	ins.	92.50	100.00	107.50	115.00
12 x 9	ins.	110.00	117.50	130.00	127.50
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4 ft.	9.50	18.00
5 ft.	12.50	24.00

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	Per 1000	Per bale (5000)
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5 ft.	3.60	4.30	5.30
6 ft.	4.32	5.16	6.36
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# Northern Nut Growers Meet

By W. M. Beckert

The 46th annual meeting of the Northern Nut Growers' Association was held in Kellogg Center, at Michigan State University, East Lansing, August 29 to 31.

At the close of the annual banquet, election of officers was held, resulting in the re-election of all the officers: George L. Slate, Geneva, N. Y., president; Gilbert Becker, Climax, Mich., vice-president; Prof. William S. Clarke, Jr., State College, Pa., treasurer, and Spencer B. Chase, Knoxville, Tenn., secretary.

President Slate called the opening meeting to order. The members were welcomed by Dr. D. B. Varner, vice-president of the university. During the business meeting reports were given by the committees, and it was voted to hold next year's meeting at Yale University, August 28 to 30.

Prof. F. L. (Steve) O'Rourke showed slides and told of his experiences in South America. Professor O'Rourke was director of the tropical experiment station at Guayaquil, Ecuador. Of special interest were the propagation methods used for cacao and coffee trees and the beneficial effects of mulch which was used when the trees were planted out in the plantations.

## Nut Trees for Landscaping

Louis Gerardi, Caseyville, Ill., reported that grafted trees of the better varieties of black walnut are in greater demand for landscaping than in the past.

Carpathian (English) walnuts are becoming more popular, also, he said.

During the panel discussions of the methods of marketing the nut crop, J. F. Wilkinson, Rockport, Ind., pointed out that most of the nuts produced in his section of the state find a ready sale in the local markets and to his established mail-order customers.

Dr. Earl H. Newcomer, Storrs, Conn., reported that high-frequency sound waves have a temporary dwarfing effect on the growth of black walnuts.

Dr. H. L. Crane, of the United States Department of Agriculture, located at Beltsville, Md., reported on the results of a fertilizer test with

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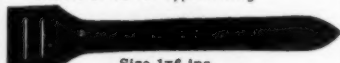
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Knives - Shears - Pruning Tools  
Nursery Spades-Grafting Supplies

WRITE FOR CATALOG

filberts on poor soil under drought conditions. An application of a complete fertilizer proved beneficial in experimental work.

Mr. and Mrs. D. K. Rose, St. Louis, Mo., reported on their work in establishing a black walnut orchard. Of special interest was Mrs. Rose's description of her methods of grafting the seedling black walnuts to named varieties. Since black walnut grafting is somewhat different from normal fruit tree grafting procedure, she was highly complimented on her success.

### Seedling vs. Grafted Trees

In the panel discussion of seedling vs. grafted trees of the Chinese chestnut, there was general agreement that for orchard purposes, grafted trees should be used. Dr. J. W. McKay, U. S. D. A., Beltsville, Md., stressed the point that the variation of seedlings is not too important for the homeowner, who is not interested in size and quality, but that the orchard operator depends on the uniform product which would only result if grafted trees were planted.

During the discussion of the program report on the new varieties of Carpathian (English) walnuts, which was led by Spencer Chase, Knoxville, Tenn., it was pointed out that more trees need to be observed and their characteristics noted, also that more plantings of hybrid seeds should be made and progeny should be selected that show the desirable characteristics of both parents.

Albert B. Ferguson, Center Point, Ia., reported on his use of open-air mist in rooting nut tree cuttings. The results were negative, except in the case of hazelnut, where a few cuttings were rooted.

At the banquet, Dr. T. D. Stevens, head of the department of forestry, Michigan State University, gave an illustrated lecture of forestry in Germany. It was interesting to note the high degree of specialization and the degree of planning and preparation in establishing and maintaining the forests in Germany.

The final day of the meeting was held at the Michigan State University biological station at Gull lake, just west of Battle Creek, which was the former estate of W. K. Kellogg. Here the group was shown some of the black walnuts that were top worked to Carpathian (English) walnuts, representing work done by Professor Neilson, of Michigan State University, more than 20 years ago. Nut trees, including pecans, chestnut, Japanese walnut and Asiatic tree hazels, were observed that were planted when Mr. Kellogg established his estate and bird sanctuary.

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Nurseryman and propagator with very good references and years of experience in various phases of operations (partly in forest nurseries), desires position as manager or superintendent for nursery or garden center. Good knowledge of plants and sales experience. Write to Box 228, care of American Nurseryman.

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## DUTCH ELM DISEASE

[Continued from page 15]

The problem is neither simple nor easy. There is still much to know about the physiochemistry of how the disease develops. The researchers have found that the fungus causing the disease does not itself block the water tubes and cause wilt. The harmful agent is a toxin complex, or poison, which is given off into the sap stream by the fungus as it grows. This material is not a particularly lethal poison, but it interferes with the life processes of the tree in seemingly several different ways. The total effect on the tree is enough to kill it, and the multiple action makes the job of finding a practical control measure that much more difficult.

### Aspects of Injury

One substance contained in the toxin complex reacts with the cells in the leaf veins, injuring them so that they no longer can pull enough water up through the tree from the roots. Another part of the toxin is apparently an enzyme which causes the formation of a pectin gel in the conducting tissue of the tree. This interferes with the movement of water up to the leaves. A third substance in the toxin is a growth regulator, which may be responsible for the twigs at the top of the elm attacked by Dutch elm disease bending over in the characteristic shepherd's crook.

Many measures for controlling the disease have been tried with only limited success. The Rhode Island scientists believe the best eventual possibility is by chemotherapy—the placing inside the tree of a material which will help overcome the disease. Sometimes this method is referred to as systemic, or internal medication.

There are several ways a chemotherapeutic chemical can act. One is by killing or inhibiting the fungus inciting the disease. This poses a problem, since the fungus is an organism living inside another organism—the tree. No chemical has yet been found which will completely kill the fungus without damaging the tree.

Another possibility is to find a chemical that will interfere with the life process of the fungus and prevent it from giving off the toxic substances. Still another way is to counteract or inactivate the damaging substances the toxin contains.

Sodium salicylate—the active ingredient in aspirin—and potassium permanganate have been tried with only limited success. Connecticut scientists made extensive tests with

8-hydroxyquinoline and found it capable under certain experimental conditions of preventing or slowing the development of the disease.

A promising combination of chemicals was developed at the University of Rhode Island several years ago. It contained an alkaline material in addition to chemicals which acted to stop toxin formation. Research had shown that the toxin either did not form or was made inactive when the sap of the tree was slightly alkaline—pH 7.0 or above. Unfortunately it was found that raising the pH to this level and keeping it there for any length of time was generally impractical.

A patent was issued in July on another promising chemical with a long name—sodium 4,5-dimethyl-2-thiazolylmercaptoacetate—and on a method of applying it to the tree. The scientists, two university plant pathologists and an industrial chemist, filed the patent application over a year ago, based on a series of successful tests in 1953. Succeeding tests have not given consistent results, and the chemical cannot be recommended, as yet, for general use.

The method described in the patent for the application of chemicals to trees appears to be the best yet developed. It should be useful in the fight against other vascular wilt diseases of trees, as well as Dutch elm disease. It consists of boring a series of holes into the sapwood of the tree on a tangent to the tree's circumference. The holes are bored in an ascending spiral, so that no hole is directly above another. Two holes can be bored from each opening in the bark. The chemical is made up in paste form and can be placed in the holes by tamping or with a calking gun. The material can also be made into a slurry and applied with a funnel and curved pipe. The holes are then tightly corked. They can be opened easily and refilled when necessary. Size of tree will determine the diameter and length of the holes and the amount of chemical to be used.

Several other methods of applying chemicals to the tree have been used over the years. One is to drain the chemical in liquid form into the conducting tissue from a bottle—much as plasma is given a human. A second way is to spray the chemical on the foliage, which will absorb it. A third is to apply the chemical to the soil, so the roots may take it up. With most chemicals, none of these methods is as effective and practical as the new spiral bore-hole method.

This brings up the third big question: What can the elm owner do

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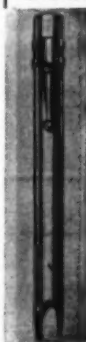
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now to protect his valuable shade trees? There are several things. The first is to keep valued elms healthy and vigorous through liming, fertilization and insect and disease control. Along with this the scientists recommend a continuing program of planting approved elm varieties to replace the old trees which die.

Spraying valuable trees in the spring with DDT before they leaf out will help prevent the disease. This spray is to control the bark beetles which carry the fungus that causes the disease. The larvae of the beetles are hatched under the bark of recently dead elm branches or trees. They stay under the bark until they mature into adult beetles. Then they emerge and fly to nearby healthy elm trees to feed. The sticky spores of the Dutch elm disease fungus are carried by the beetles to the healthy trees. The beetles feed on the bark of small twigs—the fungus spores enter the tree through these feeding wounds. In late summer the mature beetles lay their eggs under the bark of recently dead elm wood, and the cycle begins again.

DDT will help control these beetles, but to be effective it must stop them from making any openings in the tree. This means that the spray must thoroughly and completely cover the tree; spraying must be done at the right time, and the right kind and amount of chemical must be used.

One can watch for symptoms of the disease and report the location of suspect trees to the proper local authorities. Dutch elm disease causes wilting of the leaves, usually at the tips of the branches first. Wilted leaves fall quickly and the twig ends may bend over like a shepherd's crook. If one strips the bark from a wilting branch, he may notice discoloration of the sapwood. However, only a laboratory test can positively determine the presence of the fungus.

One should prune all dead branches and promptly take down elms which die. This dead wood should be stripped of bark or destroyed, for even in a brush or log pile it will still make a fine winter home for the beetles. Bark beetles do not breed in elm wood dead longer than one year. Any local tree warden should be able to give information on state and town aid which may be available for removal of dead trees.

This is how the Dutch elm disease problem appears at the present time in Rhode Island. A program of keeping trees vigorous and healthy and protected, -if possible, against the bark beetle is the best way to fight



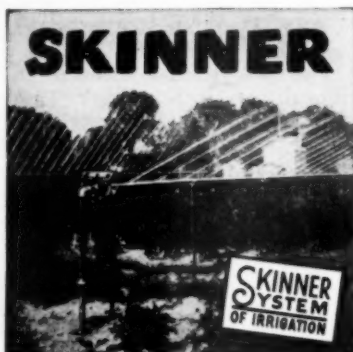
the disease. Science is making progress against the disease, and research will one day yield the answer.

### PRAIRIE NURSERY SUCCESS

Recently published in the Stigler, Okla., News-Sentinel, as one of a series of articles on prominent residents of Haskell county, was an account of the career of J. E. Conard, J. E. Conard & Son, Stigler. The son of a land buyer, J. W. Conard, who was born at St. Charles, Ia., in 1877, early took a job with the F. H. Stannard Co., Ottawa, Kan., traveling to locate desirable areas for growing nursery stock. He sought particularly land which contained a certain volcanic ash and located such a deposit near Golden, Colo., which was later widely developed as a fruit-growing area.

During a trip to Oklahoma for fruit trees to send to Colorado, Mr. Conard found an old lake bed near Stigler which contained volcanic ash. He rented 40 acres of land there, near his present nursery, and moved to Stigler with his family in 1912. Against advice he started a farm and nursery in the open prairie, growing chiefly corn and other row crops. The third year his crops were destroyed by hail, but with help from his mother he weathered this disaster and saw the business prosper from then on.

Today the nursery occupies about 500 acres and has growing operations in other states. In the begin-



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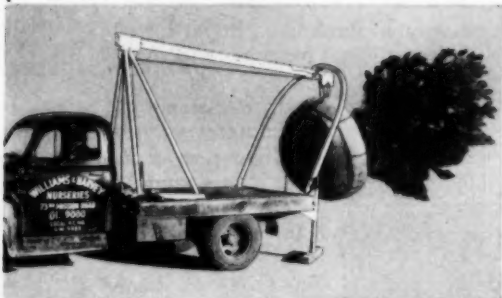
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ning the firm shipped primarily to eastern nurseries. Now it supplies outlets in 28 states and furnishes stock to several large chain groups. Leo Conard, a son, is associated in the business.

Mr. Conard twice served as president of the Oklahoma State Nurserymen's Association, this group recently presenting him with a trophy for his services to the industry. The rose garden at Honor Heights, Muskogee, was dedicated to him. Among his contributions have been the development of new rose varieties and, recently, designing of a new type tractor which can be used for nursery work.

### SOUTHWESTERN NOTES

L. C. Gatewood, Leavenworth Nurseries, Leavenworth, Kan., has been appointed to the Kansas state entomological commission by Governor Fred Hall, to represent the nurserymen of the state.

Hillview Garden Center, Lawrence, Kan., has constructed a new lath house, 40x64 feet, to supplement the original structure. Blair Adams is now manager.

Garden Place Nursery, Abilene, Kan., with William A. Flynn, owner, is building a new storage house 30x60 feet. The structure is of reinforced concrete construction throughout, including the roof. Also under construction are a greenhouse as well as a salesroom.

Barteldes Seed Co., Lawrence, Kan., has been awarded a contract for a roadside improvement project in Wabaunsee county, Kansas, totaling \$7,232.

The new Kansas turnpike goes through part of the nursery grounds of the Mount Hope Nurseries, adjoining the city of Lawrence. After the turnpike authority acquired title to the land, it was advertised that the nursery stock growing on the property would be given away to any and all who would dig and haul it away. In spite of the hot, dry September weather and the fact that the stock was in full leaf, many truckloads were removed.

J. J. P.

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"We were skeptical about growing bulbs in plastics, but what a surprise we got! Not only did the plants do unusually well, but our customers bought them as fast as we put them out. And, of course, we didn't have anywhere near enough.

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Order enough for a production test this year and see for yourself how much better they really are.

**UNION PRODUCTS, INC., 511 Lancaster St., LEOMINSTER, MASS.**

## WILLIS NURSERY TOUR

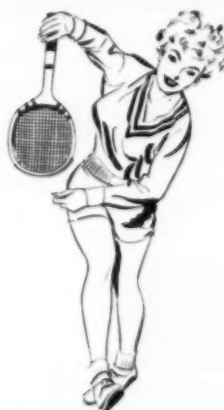
Twenty-five members of the Kansas City Association of Nurserymen were guests of the Willis Nursery Co., Ottawa, Kan., September 13. Headquarters were at the range of five propagating greenhouses two miles south of the city.

During the afternoon the guests were conducted on a tour of the 500-acre nurseries and were given an opportunity to inspect the container-grown nursery stock which this company is now producing in quantity.

In the evening, a barbecue of spareribs prepared at the nursery was served cafeteria style in the greenhouse workroom. J. J. P.

## LANDSCAPE SCHOOL CHANGE

Yale C. Moeller, president of the American Landscape School, Des Moines, Ia., since November, 1953, recently purchased the school from the estate of Francis A. Robinson, former president. Mr. Moeller has built a new wing on his home at 4508 Franklin avenue and will conduct the school from that address. He is still acting as landscape consultant for the firm of Robinson & Parnham, Des Moines.



## NURSERYMEN OF DISTINCTION KNOW . . . .

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Available in five models. Convenient terms usually can be arranged. Write for literature and name of dealer.

**W-W GRINDER CORP.**  
DEPARTMENT F WICHITA, KANSAS

## BOOK REVIEWS

### ELECTRIC SOIL HEATING

A survey of the development and use of electricity for soil warming in horticultural pursuits in England has been published by the Philosophical Library in a small volume entitled "Soil Warming by Electricity." The author, R. H. Coombes, gives in this book many of the results of his experiments in electrical soil warming conducted over a period of five years. In an introductory note he states that the object of the book is to set out as carefully and concisely as possible the many uses to which soil warming can be put, leaving it to the reader to assess the merits of each in relation to his own requirements.

Part 1 of the book is devoted to materials and methods and includes a short history of soil warming as a technique. After some comments on the early experiments in warming soil with electricity, there are a chapter on installation and general use of equipment and then some remarks on costs. The first section closes with a discussion of soil fertility and soil warming. Part 2 is concerned with the use of heating equipment in the production of various specific crops, including vegetables, fruits and flowers, according to practices followed in England.

The book, consisting of 116 pages, with an index and 12 pages of excellent illustrations, sells for \$4.75.

### REVISED PLANT BOOK

"Shrubs and Trees for the Small Place" is one of the books containing information on landscape materials that was originally written by an active nurseryman and landscape designer, the late P. J. Van Melle. First issued in 1943 by the American Garden Guild and Doubleday & Co., Inc., the volume is now offered in a new illustrated edition of 242 pages, revised and edited by Montague Free. The price is \$3.

The author of this book was for many years an instructor at the New York Botanical Garden, dealing chiefly with the cultivation of trees and the planting of the home grounds. He also enjoyed a high reputation as a writer on horticultural subjects. His skills in both areas mentioned gave special value to this book which he prepared. He offers not only first-hand information, but

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practical data as well. At the time of his death in 1953, Mr. Van Melle had almost completed the revised manuscript for the present edition.

The book has as its stated purpose the giving of a comparative evaluation of a wide range of hardy, ornamental deciduous shrubs and small trees from the viewpoint of their usefulness in small home landscapes. Included in the evaluations are more than 400 items of border and other shrubs, specimen materials and a limited number of shade trees for small places. Brief chapters on pruning and planting conclude the text.

The unique feature of the book, of course, is a section devoted to a score chart, in which Mr. Van Melle put the scores of 363 shrubs and trees in concrete form, with ratings based on their characteristics and performance. Mr. Free, in his foreword to the new edition, makes special note of this section of the book and suggests how to use it advantageously, asserting it clearly reflects not only the sound judgment of the author, but his personality as well. A chapter on classified tabulations of plants assists in the use of the chart.

#### ROSE HONORS

The American Rose Society gave high honors to two rose varieties earlier this year, after the roses had been tested for several years in gardens all over the country.

The gold medal certificate of the society was given to Frensham, an unfading scarlet floribunda. An English rose developed by A. Norman, the variety is being introduced in this country by the Conard-Pyle Co., West Grove, Pa.

Helen Traubel, a hybrid tea, received the society's silver medal certificate. The blooms of this variety are large, shade from pink to apricot and are fragrant. The plant is described as vigorous and tall. Herbert Swim produced this variety, and it was introduced by Armstrong Nurseries, Ontario, Calif.

ARTICLES of incorporation were filed last month for American Nurseries, Inc., Pittsburgh, Pa.; to do both a wholesale and retail nursery business and to engage in landscape work.

ADDED to Broome Florist, Vicksburg, Miss., is a landscape service department operated by W. W. (Billy) Broome, Jr. The service includes such features as soil analysis, spraying, lawn building and yard care programs, renovation planning and planting of nursery stock.

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**Easy for your cus-  
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 Service"

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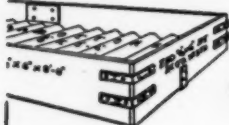


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 in the form of  
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 Actual size—  
 12½ ft. to a roll,  
 \$1.25

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 1-gal. cans ..... 5.20  
 5-gal. cans ..... 24.25



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**DURABLE — LONG LIFE — ELIM-  
 INATES FUNGUS GROWTH —  
 WILL NOT CRACK WHEN  
 STERILIZING.**

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**BUILT TO FIT  
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## PLANT PATENTS

The following plant patents were  
 issued August 23, according to  
 Rummel, Rummel & Snow, Chi-  
 cago patent attorneys:

No. 1411. Apple tree. Edward B.  
 Brauns, Wenatchee, Wash., assignor to  
 Van Well Nursery, Wenatchee. A new and  
 distinct variety of apple tree, character-  
 ized as to novelty primarily by the earlier  
 and greater coloring of its fruit, by which  
 it is clearly distinguishable from the near-  
 est related variety, the Starking Delicious.

No. 1412. Rose plant. Ralph S. Moore,  
 Visalia, Calif. A new and distinct variety  
 of miniature rose plant, characterized by  
 small but fully double flowers of honey-  
 suckle fragrance, the petals of which are  
 pure white and persist in true color; by  
 green styles defining a tiny green dot in  
 the center of the opened flower; by the  
 plant growth's being bushy, much  
 branched and tending to spread to a  
 width greater than the height; by propa-  
 gating easily from cuttings; by blooming  
 abundantly and continuously; by being  
 seedless and bearing few thorns, and by  
 being less dwarf and less thorny, but hav-  
 ing larger flowers than Pixie and by be-  
 ing bushier and having larger foliage and  
 larger flowers than Cinderella.

No. 1413. Hybrid tea rose plant. Otto  
 A. Krieter, Chicago, assignor to A. N.  
 Pierson, Inc., Cromwell, Conn., and  
 American Bulb Co., Chicago, jointly. A  
 new and distinct variety of hybrid tea  
 rose plant, characterized particularly by  
 its abundant green foliage; its large, well-  
 formed symmetrical flowers, and the deep  
 yellow color of its flowers and the sub-  
 stantial uniformity of the yellow color of  
 its flowers throughout the year and under  
 all weather circumstances, as contrasted  
 with a somewhat similar yellow variety  
 that at certain seasons normally produces  
 a large percentage of whitish, unsalable  
 flowers.

No. 1414. Apple tree. Robert S.  
 Lemcke, Tieton, Wash., and Jacob A.  
 Snyder, Wenatchee, assignors to Colum-  
 bia & Okanagan Nursery Co., Wenatchee.  
 A new and distinct variety of apple tree  
 of the Rome Beauty type, characterized  
 particularly by its fruit's having excep-  
 tionally good keeping qualities; by its  
 long, blocky shape, with relatively deep  
 and uniform basin, and by its early-devel-  
 oping distinctive bright red coloring,  
 which covers the entire fruit.

No. 1415. Rose plant. Eugene S. Boer-  
 ner, Newark, N. Y., assignor to Jackson &  
 Perkins Co., Newark. A new and distinct  
 variety of rose plant of the large-flowered,  
 polyantha class, characterized particu-  
 larly as to novelty by its vigorous, free-  
 growing and free production habits of  
 growth under normal greenhouse condi-  
 tions; the attractive shape of its half-  
 open buds and its suitability for cut flow-  
 ers; the distinctive flat shape of its open  
 flowers, with resultant hiding of the  
 stamens, and the white color of its flori-  
 bunda-type flowers.

JOHN KOCH is the sole owner  
 of the Blackstone Landscape Nurs-  
 ery, conducted at 4549 Blackstone,  
 Fresno, Calif.

## ALUMINUM TAGS

(All-weather)



3½" x ¾"

- Patented cardboard backing per-  
 mits easy embossing with or-  
 dinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum,  
 backed with yellow cardboard.
- Inexpensively priced:  
 1000 for... \$14.00    250 for... \$5.00  
 500 for... 9.00    100 for... 2.50

Write for samples.

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The new chelated organic iron

Recommended for Chlorosis of  
 Azaleas, Gardenias, Citrus, Roses and  
 similar plants.

1 or 2-lb. bags ..... \$2.00 per lb.  
 10-lb. drums ..... 1.50 per lb.  
 50 or 100-lb. drums, \$1.10 per lb., de-  
 livered.

Usually applied at rate of ½ to 1  
 oz. per 100 sq. ft.

DIRECTIONS ON LABEL

Dept. 4

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WATERPROOF  
 TREE AND PLANT LABELS  
 "Rite in the Rain" labels are not just  
 another paper label. They are made of  
 tough tagboard and chemically treated  
 to make them waterproof. Ordinary  
 pencil markings do not wash off. These  
 are longer lasting yet low cost labels.  
 Millions are used every year by nursery-  
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Don't feed them — use  
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 REPELLENT**

Dogwood and many other ornamental trees should  
 be protected from borer damage. Nonpoisonous.  
 Simply brush it on as directed.

30-gal. drum...\$36.00    5-gal. drum...\$7.00  
 All prices F.O.B. Philadelphia, Pa.

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## Cloverset Pots

Showy, spring bloomers sell surprisingly well in our retail nursery; folks who come out for roses and shrubs always notice them and very often add a few perennials to their order. Your nursery, too, can profit from extra transactions like these, and for very little time and expense. Order Cloverset pots now and make use of fall slack time to bring extra sales next spring!

*If you've been using cans, consider these advantages of Cloverset pots:*



NO TIME LOST  
CUTTING CANS  
AT TIME OF  
SALE.



NO DISTURB-  
ANCE TO ROOT  
SYSTEM WHEN  
REMOVED



NO CUT  
HANDS FROM  
JAGGED  
EDGES



NO WATER-  
LOGGING OF  
ROOTS TO IN-  
JURE PLANTS'  
HEALTHY  
GROWTH

*Cloverset Pots are lighter, better, easier to use*

*Put Your Stock in Cloverset Pots!*



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EASTERN DISTRIBUTOR: Moorestown Gardens,  
Moorestown, Burlington Co., N. J.

### A MATTER OF JUDGMENT

The question of just what constitutes a nursery has presented itself to the city council at Dubuque, Ia. A nursery and landscape service there was the subject of a complaint filed by a resident that the firm was violating a zoning ordinance which permitted a nursery, but not a more commercial venture, at the firm's location. The nursery was ordered by the council to clean up the grounds and cease from any non-nursery operations. This the firm did to the council's satisfaction, but the resident continued to insist that there was a violation, because of the presence on the property of farm and earth-moving machinery, rock piles and retail sales items such as fireplaces, incinerators and power mowers, as well as a portable advertising sign that was visible from another street.

The complainant's question as to just what constitutes a nursery brought the reply from the city solicitor: "It would be nice if there were

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2, 3, 4 or 5 Rail.  
Can be painted or allowed  
to age naturally without cost  
for upkeep. SCREEN TYPE  
PICKET FENCE shown in  
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**PROFITS For Nurserymen!  
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**FOR LONG LIFE**—Entire Fence—  
(both posts and rails) treated with  
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### BOOKS REVIEWED IN THIS ISSUE

and others on horticultural subjects

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**TREE WOUND DRESSING**

For the protection of wounds after pruning use Bartlett Tree Paint. Easily applied with ordinary paintbrush.

**RETAIL PRICE—LESS THAN CASE LOTS**

1/2-pt. can (48 per carton)	.....\$0.60
1-pt. can (48 per carton)	.....90
1-qt. can (24 per carton)	.....1.60
1-gal. can (6 per carton)	.....3.50

**JOBBER DEDUCT 50% FOR CASE LOTS F.O.B. DETROIT**



This attractive steel display rack fully stocked costs you only \$7.25 F.O.B. Detroit. Retail value \$14.50. Refills at Jobbers' prices.

Here's a fast-morning specialty which sells to state highway dept., city and country parks, tree experts, cemeteries and fruit growers. Every tree owner is a prospect. Ask for catalog No. 35 for a full line of "Tree Trimming Equipment."

**Rack Displays—6 1/2 pts., 3 pts. and 4 qts.**

### M-414 PRUNING SAW

The axe handle, which is especially made for this saw, is properly tapered to fit the head and is 36 ins. long.

M-414 Meylan Saw, complete with 16-inch blade .....\$12.00

M-414 Meylan Saw, complete with 18-inch blade .....\$12.50

**Jobbers' Price**

Jobbers Deduct 50% for dozen lots F.O.B. Detroit.

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a definite line of demarcation from nurseries to more commercial enterprises. However, there isn't. It seems mostly to be a matter of judgment."

**IRRIGATION NEEDS STUDIED**

Long-time weather records are helping scientists to determine irrigation needs in five south Atlantic states, the United States Department of Agriculture reports. Co-operative studies by the department, the United States weather bureau and the state agricultural experiment stations of North Carolina, South Carolina, Virginia, Georgia and Florida are showing that irrigation requirements can be predicted with considerable accuracy for areas where weather records are available and soil types are known.

Part of this work, designed to aid farmers in planning and using irrigation, involves experiments with electronic atomic-particle counters for measuring soil moisture.

Soil scientist Dr. C. H. M. van Bavel, who is in charge of this research, hopes to obtain in a few years, from the fundamentally statistical studies now under way, information that will greatly reduce the number of years expensive field experiments must be run.

Need for irrigation depends upon available soil moisture. According to Dr. van Bavel, drought begins when there is no more soil moisture in the root zone available to the crop. On this basis, his studies have shown, some areas of North Carolina receiving as much as 40 inches of rainfall a year may encounter up to 40 or 50 days of drought during one growing season out of five.

**Use North Carolina Data**

Making use of 25 years of weather bureau records, the cooperating research workers have now completed drought probability determinations for North Carolina. Work is moving ahead on similar determinations for the other cooperating states. Rate of evaporation of moisture from the soil, a key factor, is calculated from records of sunshine duration, relative humidity, temperature and wind speed. Rainfall records from various locations (in North Carolina, from 71 stations) are related to these evaporation rates and to water-holding capacities of soils.

A farmer can use this information to help determine whether he should plan to irrigate and whether irrigation would be practical in terms of water availability and equipment cost.

Information from the studies will

## The Original SWISS ROTARY TILLERS



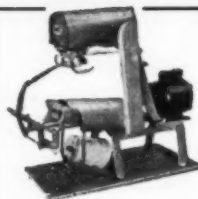
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Automatically adjusts itself and ties any size bunch up to 19 ins. in circumference. Ties roses, glads, seedlings, as well as any other type nursery stock and cut flowers. Fast and efficient. Tying mechanism inverted so that dirt will not get into it, contributing to longer life.

**FELINS TYING MACHINE CO.**  
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Used for over 20 years to reduce wilting and setback of transplanted broad-leaved and coniferous evergreens, deciduous trees, flowering shrubs, etc. Safe on plant tissue; paint or spray it. Extend transplanting and landscaping through hot weather.

55-gal. drum....\$63.25 30-gal. drum....\$37.50

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### GREENHOUSE ERECTION

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also help a farmer using irrigation to determine the best time to apply water. He must know the water-holding capacity of his soil, the daily rate of evaporation of soil moisture after a soil-filling rain and the level of available soil moisture he wishes to maintain. Barring additional rain, he can then predict the day soil moisture will be depleted in a particular field.

### Neutron Counter Used

In connection with this work, Dr. van Bavel and his coworkers are investigating the use of an electronic device, the neutron counter, for providing an accurate, practical measurement of soil moisture content and depletion. This counter contains a fast neutron source — beryllium mixed with radium. Underground, fast neutrons penetrate everything but hydrogen — a component of water. When they bounce off hydrogen nuclei, the fast neutrons become slow neutrons, which can be counted electrically and translated into a direct reading of soil moisture.

A new, experimental 2-piece portable counter is under development, which is expected to furnish soil-moisture measurements at specific depths, plus information about soil density. One piece of this equipment emits gamma rays and neutrons; the other, located at the same soil depth, but at a different site, measures the penetration of these atomic rays or particles. With this device, soil moisture content is measured in terms of the number of fast neutrons to reach the counter, and the soil density is computed as inversely proportional to soil penetration by gamma rays.

RECENTLY opened by Lavelette Landscape Nursery, Huntington, W. Va., was a new garden center. Ernest Zimmerman and William Springer are partners in the business. The garden center maintains a complete line of lawn and garden supplies, equipment and tools, patio and barbecue furniture and accessories and lawn furniture.



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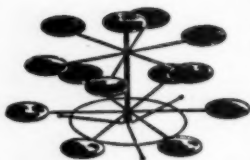
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## STAN SAYS

### Sweetbay Magnolia

Those who motor to and from Florida in the winter see only the tall, lean, 50 to 75-foot trunks of the sweetbay magnolia in the swamps of Georgia; however, Magnolia virginiana is evergreen down there. It is a far cry from mild Georgia to the frigid winters of the western Pennsylvania foothills, where this magnolia grows to a height of 15 feet, with an 11-foot spread.

The foliage has that clean, finished look, the shiny bluish-green of the upper side contrasting with the whitish or silvery underside. The leaves are six inches long and two inches wide. The sweetbay blooms in May and June. As the cup-shaped white blooms are scattered over the plant, it does not make a spectacular show, but its sweet-scented blooms, two to three inches across, can be used as cut flowers. Back in 1918 and 1919, when Mr. Harper had a beautiful home and garden just outside his famous Andorra Nurseries, he had one garden where this magnolia was featured. As I recall, the sweetbays were clipped a little each year to keep some semblance of uniformity among them. Here, in the north, this plant should be moved in the spring. It should be used in larger gardens, at the corners of the new ranch houses and in the background plantings along a property line. I have always felt that the common name of this plant was appropriate.

### Transplanting Trees Bare Root

Trees can be transplanted bare root after frost has caused the leaves to drop. If a tree is to be moved before all the leaves have dropped, the leaves should be stripped. Do not try stripping unless there has been at least one good frost.

Norway maples up to four inches in diameter can be moved bare root anytime from November 1 to April 1 if the temperature is above freezing and the ground is not frozen. Pin oaks up to three and one-half inches can be moved anytime after March 10, up to April 20 (when buds start to open), without a ball. As most nurserymen know, a tree carefully dug bare root has much more of the root system than a balled tree.

Willows that have been dug in March when they are still dormant and heeled in can be moved out of the heeling in ground until June. If

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High . . . 8 ins.  
Weight per 100  
Regular 15 lbs., Heavy 35  
Regular Weight Price  
100..\$4.00 1000..\$37.50  
Heavy Weight Price  
100..\$5.25 1000..\$50.00

### Size 2

Top . . . 7 ins.  
Bottom 5 1/2 ins.  
High . . . 9 ins.  
Weight per 100  
Regular 24 lbs., Heavy 55  
Regular Weight Price  
100..\$4.50 1000..\$42.50  
Heavy Weight Price  
100..\$5.75 1000..\$55.00

### Size 3

Top . . . 8 1/2 ins.  
Bottom 6 1/2 ins.  
High . . . 9 ins.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100..\$5.00 1000..\$47.50  
Heavy Weight Price  
100..\$6.25 1000..\$60.00

### Size \*4

Top . . . 10 ins.  
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they are changed in the heeling-in ground June 1, they can be moved again July 4.

At the time of transplanting, the top of a Norway maple need not be reduced much (perhaps one fourth). In the case of a pin oak, it is best to prune the side branches to within six to 24 inches of the trunk. A willow should be pruned as soon as it is dug.

## B & B Stock

Thirty years ago, not many trees were balled, though, of course, evergreens were always dug that way. Nowadays I go into a nursery and see small to medium-size trees being dug B&B in late March—a waste of time in most instances. Then in mid-May I see the same nurserymen digging trees in full leaf, bare root; of course these were puddled, but I doubt if that helped too much.

Some trees and shrubs always have to be moved B&B, viz., *Nyssa sylvatica* (sour gum), one of the best trees; nut trees, and magnolia.

## Planting Plan

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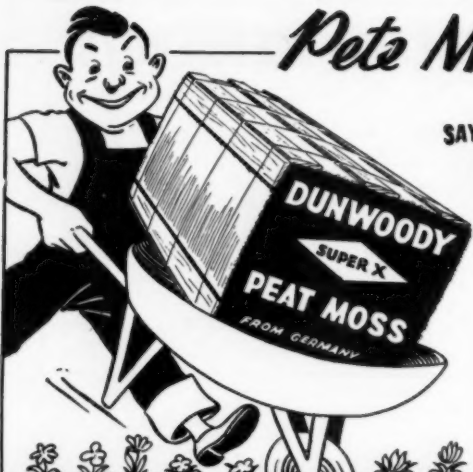
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NOTICE of intention to file a certificate for the conduct of the Skipano Nursery, 28 Walnut street, Warren, Pa., was recently published for B. J. and Jane D. Skipano. A general nursery and landscape business is to be conducted.

KARL UNTERMANN, West End Nursery, San Raphael, Calif., was a judge at the dahlia show, the annual San Francisco flower show held recently in the City Hall rotunda. He had also judged entries at the San Mateo floral festival, at San Mateo, Calif.

GOING out of business for approximately one year is Schepens Plainedge Azlaca Farm, Hicksville road and South State Parkway, P. O. Box 154, Massapequa, L. I., N. Y. The current property is to be used for building, and the company expects to resume business in another state.

STATEMENT of the ownership, management and circulation required by the act of Congress of August 24, 1912, as amended by the acts of March 3, 1933, and July 2, 1946, of American Nurseryman, published twice monthly, at Chicago, Ill., for October 1, 1955.

1. The names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, American Nurseryman Publishing Co., 343 S. Dearborn St., Chicago 4; Editor, F. H. Kilner, 343 S. Dearborn St.; Business Manager, F. H. Kilner, 343 S. Dearborn St.

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(Signed) F. H. Kilner, Business Manager.

Sworn to and subscribed before me this 20th day of September, 1955. Nellie E. Ryan, Notary Public.  
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## NEW BULLETINS

### CEDAR APPLE RUST

Cedar apple rust is described in a bulletin of the extension service of the University of Nebraska college of agriculture, No. 1806, revised, by John L. Weihing and Wayne C. Whitney, extension plant pathologist and extension horticulturist, respectively. Both the apple and the cedar are necessary for the survival of the fungus parasite which causes the disease. Symptoms on cedars are spore-bearing galls on the branches; on apples the disease appears as orange-colored spots on the surface of the leaf above cup-shaped structures on the underside, as crownlike rings on the fruit and as cankers that may girdle twigs. Spores are air-borne between host trees, but trees one mile apart seldom show reciprocal infection. Control is through the use of fungicidal sprays and the planting of resistant varieties of both apple and cedar.

### WOODY ORNAMENTAL USE

The extension service of the University of Nebraska college of agriculture, Lincoln, offers a publication, "Woody Ornamentals and Their Use," with Victor J. Miller, assistant professor of horticulture at the university, as author. The work is chiefly devoted to lists of trees, shrubs, ground covers and vines that are recommended for planting in Nebraska. There are a descriptive note for each subject and a reference number to indicate the region or regions in the state where the plant can be grown successfully. These regions, shown on a state chart, are explained in an introductory page that also states the lists were developed in cooperation with the Nebraska Association of Nurserymen. Mention is made of the "Plant Nebraska" campaign being sponsored

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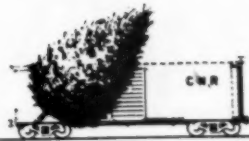
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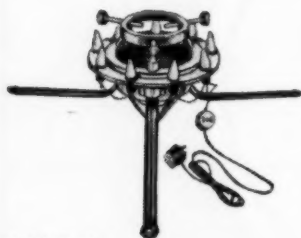
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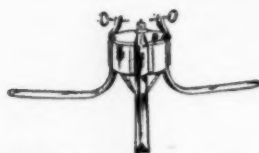
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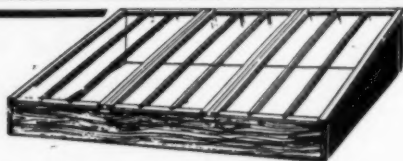
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ed by the state nurserymen as part of the "Plant America" program. Several pages at the end of the publication offer primary principles on landscaping, planting, pruning and lawn care. Incorporated here are four landscape designs for different types of homes, by Mort Cooper, Plumfield Nurseries, Fremont.

### FOR CONNECTICUT USE

Homeowners in Connecticut seeking instruction on landscape materials will find much instructive data in a recently issued bulletin, No. 55-17, of the agricultural extension service of the college of agriculture at the University of Connecticut, Storrs. Titled "Trees, Shrubs and Vines for Connecticut," the 40-page illustrated bulletin, well printed on large pages about 8x10 inches, lists and discusses about 500 plant items, of which about 200 are considered of primary importance for landscape work by the author, H. O. Perkins, assistant professor of landscape design at the university. Plants which once were planted but are not now commonly planted are included, it is stated, since many of these older plantings still exist.

This publication is a companion to "The Home Landscape—Planning for Use and Beauty," an earlier publication of the university's extension service. Although the new publication is primarily a listing of plants, considerable supplementary information on culture, landscape uses, identification, common names and other information is given.

### FLORIDA PLANT BOARD

The 20th biennial report of the state board of Florida for the period July 1, 1952, to June 30, 1954, was recently released as bulletin No. 6 of the board. Individual reports for the various departments are included, these being for plant inspection, quarantine inspection, entomology, pathology and apiary inspection.

Highlights of the reports include reference to the steady growth of the nursery and cut flower industry in the state, the rapid development of spreading decline in the citrus groves at this time, the budwood certification program, the extensive research on tristeza, growing quarantine inspection work and enlargement of the insect reference collection.

CLOVIS NURSERY, 08 DeWitt street, Clovis, Calif., was recently started by Robert S. Greaves.